LARGE-SCALE DEMONSTRATION OF BIOVENTING IN THE NORTHERN UNITED STATES;

VOLUME 3: APPENDICES 12 THRU 33

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	contains appendices 12 and 33.		
14. ABSTRACT This study was conducted to exami	na tha affactiveness of bioventing fo	r ramadiating natrola	ım hydrocarbons under the colder climatic
			re training pit (FPTA#1) at F.E. Warren AFB,
			sed air injection and passive soil warming for the
potential to enhance biodegradation p		8 F 78 . 7 F	J
			ation commonly associated with fire training pits
			nd naphthalene of 52.4, 76.4, 37.2, 19.0 and 18.0
			57.1 percent, respectively. Biodegradation rates
			icant enhancement due to passive soil warming
continuous air injection.	air nor pure oxygen injection signi	ficantly affected the b	iodegradation rates compared to conventional
	as effective at remediating contamin	ation resulting from fi	re training exercises in colder climates, that
			not useful, and that pulsed air or pure oxygen was
not useful for increasing biodegradation		arring mounda was n	ov uporus, usu visus pusou usi os puso ossi gos wub
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APPENDIX 12 GROUNDWATER HYDROCARBON ANALYSIS RESULTS

FE Warren - 1/93 Ground Water TPH Results

UWRL				Concentration	Concentration
Log	Sample	Sample	Sample	C-6 to C-15	C-6
No.	Date	Location	Туре	(με/L)	(μg/L)
1912	1/22/93	FEW,M-92, (1)	P&T	673	687
1913	1/22/93	FEW,M-92, (2)	L-L	ND	ND
1914	1/22/93	FEW,M-92, (1) dup	P&T	679	692
1917	1/22/93	FEW, M-92, (4) dup	L-L	ND	ND
1919	1/22/93	FEW,M-94, (1)	P&T	49.1	50.1
1920	1/22/93	FEW,M-94, (3)	L-L	ND	ND
1923	1/22/93	FEW,M-95, (1)	P&T	14.6	14.9
1925	1/22/93	FEW,M-95, (4)	L-L	ND	ND

Note: L-L=Liquid-Liquid Extraction; P&T=Purge and Trap Extraction; ND=Not Detected

	FE	W - Specific Compo	ound and Boiling Point	Results	
		(Water	P&T Samples)		
				Date Sampled	
PT Water 1912		FEW	, M-92, (1)	1/22/93	
_	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(µ s/L)	bp Range	(ng)	(μ ε/Ľ)
2-Methylpentane	88.6	17.7	<c-6< td=""><td>95.8</td><td>19.2</td></c-6<>	95.8	19.2
n-Hexane	2,781	556	C-6 to C-7	3,071	614
2,4-Dimethylpentane		35.8	C-7 to C-8	112	22.4
Benzene	65.6	13.1	C-8 to C-9	43.1	8.6
п-Неркапе	69.4	13.9	C-9 to C-10	33.8	6.8
Toluene	43.0	8.6	C-10 to C-11	82.9	16.6
п-Octane	13.5	2.7	C-11 to C-12	46.8	9.4
Ethylbenzene	13.3	2.7			
n-Propylbenzene	5.2	1.0	59		
n-Decane	82.5	16.5			
Undecane	14.9	3.0	15		
Naphthelene	34.2	6.8			
				Date Sampled	
PT Water 1914			1-92, (1) dup	1/22/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(μ ͼ/L)	bp Range	(ng)	(μ <u>ά</u> / <u>Γ</u>)
2-Methylpentane	106	21.3	<c-6< td=""><td>115</td><td>23.0</td></c-6<>	115	23.0
n-Hexane	3.040	608	C-6 to C-7	3,202	640
2,4-Dimethylpentane	89.5	17.9	C-7 to C-8	36.6	7.3
п-Нершле	23.5	4.7	C-8 to C-9	0.0	0.0
Toluene	13.3	2.7	C-9 to C-10	29.1	5.8
n-Decane	130	26.1	C-10 to C-11	131	26.2
Naphthalene	8.0	1.6	C-11 to C-12	14.5	2.9
				Date Sampled	
PT Water 1919			M-94,(1)	1/22/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(ng/L)	bp Range	(ng)	(πa/Γ)
Toluene	141	28.2	<c-6< td=""><td>0.0</td><td>0.0</td></c-6<>	0.0	0.0
n-Decane	2.8	0.56	C-6 to C-7	0.0	0.0
Naphthelene	11.8	2.4	C-7 to C-8	153	30.6
			C-8 to C-9	0.0	0.0
			C-9 to C-10	4.7	0.9
			C-10 to C-11	60.4	12.1
			C-11 to C-12	11.0	2.2
PT Water 1923		FEW,	M-95, (1)	Date Sampled 1/22/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(ue/L)	bo Range	(ng)	(μ ε/ L)
-Decane	3.7	0.74	<c-6< td=""><td>0.0</td><td>0.0</td></c-6<>	0.0	0.0
Vaphthelene	18.8	3.8	C-6 to C-7	0.0	0.0
			C-7 to C-8	0.0	0.0
			C-8 to C-9	0.0	0.0
			C-9 to C-10	8.9	1.8
			C-10 to C-11	43.1	8.6
			C-11 to C-12	17.5	3.5

	FEW -	Specific Compour	d and Boiling Poi	nt Results	
		(Water L-	L Samples)		
				Date Samp	pied
L-L 1913		M-	92(2)	1/22/93	•
	Mass		Compound	Mass	Concentration
Compound	(ng)	(µg/L)	bp Range	(ng)	(µg/L)
No compounds	detected		C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	0.0	0.0
		(0):			
			E	ate Samp	led
L-L 1917		M-92	(4) dup	1/22/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(μg/L)	bp Range	(ng)	(μg/L)
No compounds o	letected		C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	0.0	0.0
			D	ate Sampi	led
L-L 1920		M-9	4(3)	1/22/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(μg/L)	bp Range	(ng)	(μg/L)
No compounds d	etected		C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	0.0	0.0
			Da	ate Sampl	ed
L-L 1925		M-95		1/22/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(µg/L)	bp Range	(ng)	(µg/L)
lo compounds de	tected		C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
		•	C-14 to C-15	0.0	0.0
			>C-15	0.0	0.0

FE Warren - 9/93 Ground Water TPH Results

					Concentration	Concentration
Log	Sample	Sample	Sample	Sample	C-5 to C-15	C-6
No.	Date	L D	Location	Туре	(µg/L)	(μ ε/ L)
3349	9/20/93	M-92-NV1	M-92	LL	53.4	56.2
3350	9/20/93	M-92-NV2	M-92	LL	68.0	71.6
3352	9/20/93	M-92-V2	M-92	PT	72.0	73.5
3353	9/20/93	M-94-NVI	M-94	IL	ND	ND
3354	9/20/93	M-94-NV2	M-94	LL	ND	ND
3355	9/20/93	M-94-V1	M-94	PT	28.6	29.2
3356	9/20/93	M-94-V2	M-94	PT	13.7	13.9
3357	9/20/93	M-95-NV1	M-95	LL	ND	ND
3358	9/20/93	M-95-NV2	M-95	LL	61.5	64.7
3359	9/20/93	M-95-V1	M-95	PT	4.7	4.8
3360	9/20/93	M-95-V2	M-95	PT	9.2	9.4
3361	9/20/93	Trpbk-V1	field	PT	0.70	0.72
3362-1	9/20/93	Trpbk-NV1	field	LL	ND	ND
3362-2	9/20/93	Trpbk-NV1	field	LL	ND	ND
Analytical Blank	10/14/93		Lab	PT	ND	ND
Analytical Blank	10/14/93		Lab	LL	ND	ND

Note: LL=Liquid-Liquid Extraction; PT= Purge and Trap Extraction; ND=Not Detected

	FEW	- Specific Compoun	d and Boiling Point	Results	
		•			
		(Furge & 1)	rap Samples)	Date Sampl	ed
P&T 3352		M-9	2-V2	9/20/93	Cu
	Mass	Concentration	Compound	Mass	Concentratio
Compound	(ng)	(μg/L)	bp Range	(ng)	(μg/L)
2-Methylbutane	327	65.4	<c-6< td=""><td>323</td><td>64.7</td></c-6<>	323	64.7
n-Pentane	84.5	16.9	C-6 to C-7	40.7	8.1
2-Methylpentane	31.5	6.3	C-7 to C-8	48.2	9.6
n-Hexane	39.9	8.0	C-8 to C-9	17.7	3.5
n-Heptane	25.8	5.2	C-9 to C-10	0.0	0.0
Toluene	22.0	4.4	C-10 to C-11	0.0	0.0
n-Octane	8.6	1.7	C-11 to C-12	2.3	0.45
Ethylbenzene	4.7	0.95	;		
p-Xylene	4.2	0.85			
n-Undecane	2.3	0.46			
			1	Date Sample	:d
P&T 3355		M-94		9/20/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(μg/L)	bp Range	(ng)	(µg/L)
2-Methylbutane	112	22.4	<c-6< td=""><td>144</td><td>28.8</td></c-6<>	144	28.8
n-Pentane	24.5	4.9	C-6 to C-7	19.6	3.9
n-Hexane	19.2	3.8	C-7 to C-8	8.0	1.6
п-Нертапе	3.5	0.69	C-8 to C-9	4.8	0.97
Toluene	4.4	0.87	C-9 to C-10	0.0	0.0
n-Octane	4.9	1.0	C-10 to C-11	0.0	0.0
			C-11 to C-12	0.0	0.0
			I	Date Sample	d
P&T 3356		M-94	-V2	9/20/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(μ <u>α</u> /L)	bp Range	(ng)	(µg/L)
2-Methylbutane	60.2	12.0	<c-6< td=""><td>61.8</td><td>12.4</td></c-6<>	61.8	12.4
Coluene	1.6	0.32	C-6 to C-7	12.8	2.6
ı-decane	2.7	0.54	C-7 to C-8	1.7	0.35
-Undecane	1.97	0.39	C-8 to C-9	0.0	0.0
			C-9 to C-10	1.7	0.35
			C-10 to C-11	2.7	0.54
			C-11 to C-12	2.0	0.39

	FEW	- Specific Compour	d and Boiling Point	Results	
		(Purge & T	rap Samples)		
P&T 3359			95-V1	Date Sampl 9/20/93	ed
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(µg/L)	bp Range	(ng)	(µg/L)
2-Methylbutane	27	5.4	<c-6< td=""><td>22.8</td><td>4.6</td></c-6<>	22.8	4.6
n-Pentane	7.7	1.5	C-6 to C-7	3.8	0.76
n-Hexane	3.7	0.74	C-7 to C-8	0.0	0.0
n-decane	2.3	0.46	C-8 to C-9	0.0	0.0
¥6			C-9 to C-10	0.0	0.0
			C-10 to C-11	2.3	0.46
			C-11 to C-12	0.0	0.0
			8	Date Sample	ed
P&T 3360		M-9	5-V2	9/20/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(μg/L)	bp Range	(ng)	(µg/L)
2-Methylbutane	56.6	11.3	<c-6< td=""><td>34.0</td><td>6.8</td></c-6<>	34.0	6.8
n-Pentane	1.6	0.32	C-6 to C-7	18.3	3.7
n-Hexane	6.9	1.4	C-7 to C-8	0.0	0.0
n-Undecane	2.3	0.45	C-8 to C-9	0.0	0.0
			C-9 to C-10	0.0	0.0
			C-10 to C-11	0.0	0.0
			C-11 to C-12	2.3	0.45
			;	Date Sample	d
P&T 3361		Trpb		9/20/93	
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(µg/L)	bp Range	(ng)	(µg/L)
Undecane	3.5	0.70	<c-6< td=""><td>0.0</td><td>0.0</td></c-6<>	0.0	0.0
17			C-6 to C-7	0.0	0.0
			C-7 to C-8	0.0	0.0
			C-8 to C-9	0.0	0.0
			C-9 to C-10	0.0	0.0
			C-10 to C-11	3.5	0.70
			C-11 to C-12	0.0	0.0

	FEW -	Specific Compoun	d and Boiling Poir	nt Results	-								
		(Water L-	L Samples)										
			I	Date Samp	oled								
L-L 3349		M-92	2-NVI	9/20/93	}								
	Mass	Concentration	Compound	Mass	Concentration								
Compound	(ng)	(µg/L)	bp Range	(ng)	(μg/L)								
No compounds i	dentified		C-12 to C-13	0.0	0.0								
			C-13 to C-14	0.0	0.0								
			C-14 to C-15	0.0	0.0								
			>C-15	4.6	53.6								
			• 4										
			I I	ate Samp	led								
L-L 3350 M-92-NV2 9/20/93													
	Mass	Concentration	Compound	Mass	Concentratio								
Compound	(ng)	(nā/r)	bp Range	(ng)	(hā/ʃ')								
No compounds is	dentified		C-12 to C-13	0.0	0.0								
			C-13 to C-14	0.0	0.0								
			C-14 to C-15	0.0	0.0								
			>C-15	6.4	68.3								
			D	ate Samp	led								
L-L 3353		M-94	-NVI	9/20/93									
	Mass	Concentration	Compound	Mass	Concentration								
Compound	(ng)	(μ ፩ /Γ)	bp Range	(ng)	(μ g/L)								
No compounds d	etected		C-12 to C-13	0.0	0.0								
			C-13 to C-14	0.0	0.0								
			C-14 to C-15	0.0	0.0								
			>C-15	0.0	0.0								
			D	ate Sampl	led								
L-L Water 3354		M-94-		9/20/93									
	Mass	Concentration	Compound	Mass	Concentration								
Compound	(ng)	(μᾶ <u>/</u> Γ)	bp Range	(ng)	(μg/L)								
No compounds de			C-12 to C-13	0.0	0.0								
,			C-13 to C-14	0.0	0.0								
			C-14 to C-15	0.0	0.0								
			>C-15	0.0	0.0								

I	EW - S	pecific Compound	and Boiling Point	Results	
		(Water L-L			
			Da	ate Sampi	ed
L-L 3357		M-95-	* · · -	9/21/93	_
	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(µg/L)	bp Range	(ng)	(µg/L)
No compounds de	tected		C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	0.0	0.0
			D:	ate Sampi	ed
L-L 3358		M-95-	NV2	9/21/93	
	Mass	Concentration	Compound	Mass	Concentratio
Compound	(ng)	(μg/ Ľ)	bp Range	(ng)	(hā/r)
No compounds ide			C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	5.7	61.7
			D	ate Sampl	led
L Water 3362-1		Trip Blan	ık - NV l	9/21/93	
2-2 11 44 444 3302 1	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(μg/L)	bp Range	(ng)	(μ g/L)
No compounds de			C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	0.0	0.0
			D	ate Samp	led
L-L 3362-2		Trip Blank	- NVIdup	9/21/93	
2 2 3 3 4 2	Mass	Concentration	Compound	Mass	Concentration
Compound	(ng)	(hã/L)	bp Range .	(ng)	(ha/r)
No compounds de		<u>, n sz - , , , , , , , , , , , , , , , , , , </u>	C-12 to C-13	0.0	0.0
composition so			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	0.0	0.0
			_	\ C	lad
5			L	ate Samp 10/14/93	
Analytical Blank			C	Mass	Concentratio
_	Mass	Concentration	Compound		(µg/L)
Compound	(ng)	(hã/Г)	bp Range	(ng) 0.0	0.0
No compounds de	tected		C-12 to C-13	0.0	0.0
			C-13 to C-14	0.0	0.0
			C-14 to C-15	0.0	0.0
			>C-15	0.0	

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APPENDIX 13 MONTHLY SOIL GAS MONITORING DATA

F.E. Warren AFB Soil Gas Montoring Data (6/4/93)

		Remarks	Vacuum meter reading zero	Vacuum meter reading zero	Vacuum meter reading zero	Vacuum meter reading zero	Vacuum meter reading zero	Vacuum meter reading zero	Vacuum meter reading zero	אשרחתוון ווובובו ובשחחוף לבוס			*: point has no probes																		HC smell	Strong HC odor			
		Jemp(C)Vacuum("H2O	•	•	1		•	•					6.5	6.5	7	9	7.5	7	7.5	6.5	7	00	8.5	2000	7.5	6	000	7.5	8.5	6.5		6	16	17	7.5
	Ć,	lemp(C)	66	10.7	8.01	2 2	271	601			1.									•															
(A) 0/	CO3/4/PDE1/2	mdd)H	230	22	2 5	3 6	250	200	200	2 5	3 4	2 8	40	15	29	40	33	45	55	25	0	12	00	01	30	15	12	9	62	.8	10	88	200	1800	20
	7/4/6/	() () () () () () () ()	7.01	,,,	9	7 2	2 4	2 6	3.0	0.0	2 6	12	2.8	1.6	2.1	2.8	1.8	2.8	3.3	1.2	9.0	0.8	9.0	0.8	1.6	0.7	0.7	2.2	13.9	3.9	0.7	1.4	17.5	12.5	2.8
r	03/6/	3 (%)	35	3,4	130	3,4	3 71	200	10.01	30.00	18.5	7.8	18.8	19.8	19.3	17	18.9	17.9	17.2	22	21	20.2	20.3	20.3	19.9	20.5	20.6	18.7	2	15.7	18.9	19.8	0.5	0	18.8
	CO2(%) FPH(pom Temp(C) Vacuum/"H2O	OZII WINDOW											9	6.5	9	7	6.5	5.5	7.5	6	9.5	10.5	7	13.5	7	18	7.5	6.5	7.5	6.5		13	16.5	10	7
	Tenno/C	12.6	12.1	13.5	13.7	12.3	15.5	10.3	13.6		14	15.1	1.91	14	12	14.1	12.7	15.3	14.8	12.9	11.4	12.5	12.1	13.4	13.9	10.8	11.11	12.4	14.5	15.4	11.3	11.2	12.7	12.2	14.5
Middle (5.5"	PHloom	270	210	120	62	290	250	160	200	20	54	52	46	34	35	43	38	48	62	35	13	21	20	20	43	14	15	55	09	62	10	58	230	100	20
Σ	202(%)Ir	15	6.9	4.4	5.9	=======================================	4.5	25	9	6.0	4.2	15	3.5	4.3	2.6	3.2	2.4	3.3	5.7	1.8	0.7	1.2	1.3	1.2	2.8		0.7	4	14	8.5	0.7	1.2	14.5	10.4	2.8
	02(%)(0	6	14	12	13.9	8.1	16.3	19	18.5	19.5	12	_ص	18.1	17.1	18.9	16.5	18.2	17.5	14.3	19.5	20.5	19.5	19.8	19.6	18.8	19.8	20.6	16.1	9	9.3	19.2	19.5	2.5	2	18.8
	/acuum("H2O											•	5.5	5.5	5	5	5.5	5.5	10	5	6.5	6	5.5	7.5	6.5	6.5	9	6	6.5	8.5	18.5	5.5	20.5	5.5	7
	Temp(C)	15.5	15.7	17.8	17.7	15.6	16.6				•	•		-	•		•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	
Shallow (3.0")	02(%) CO2(%) TPH(ppin) Temp(C) Vac	250	200	180	09	300	250	180	200	8	58	25	45	9	88	46	\$	24	8	47	8	27	40	36	52	ক্র	2	9	02	62	28	99	200	74	20
S	CO2(%)	10	6.3	4.2	5.5	10	4.5	2	3.8	1.2	5.2	5.8	33	5.9	2.7	33	3.1	37.	7.1	2.8	1.4	1.8	9	23	4.3	2.2	9.0	5.5	11.8	. 8.9	9.0	1.2	23	9.7	33
	02(%)	4.5	14.2	17.2	14.6	7.6	16.2	18.7	17.5	20.2	15.9	14	18	15.5	18.8	16.2	17.6	9	12.5	18.8	19.8	18.2	18.2	19	16.9	18.1	20.3	14.2	5.2	12	12	19.8	17.4	7	18.2
Monitoring	Point	-	2	33	4	2	9	7	80	6	10	=	12	13	14	15	16	17	e	19	50	21	22	ន	24	25	26	- 27	28	29	೫	E	32	33	ਲ

F.E Warren AFB Soil Gas Monlloring Data (6/28/93)

				()																(
	Remarks												":puints has	no probes														† 							
	Temp(C) Vacuum("H2O												7.5	9	6.5	7.5	7	6.5	6.5	7.5	7	7	6.5	7	7.5	6.5	7.5	7.5	7	8.5	8.5				
	Temp(C)	=	11.7	11.5	16.4	13.6	17.5							•	•	•				•	•	•	•	•				•	•						٠
Deep (8.0°)	TPH(ppm)	19	n	22	62	52	76	09	59	Ŧ	59	93	74	ß	99	20	55	20	99	45	0	24	20	20	30	20	15	40	20	89	8	24	water	83	99
	CO2(%)	15	8.1	2	9.9	16.5	4.5	2.6	9	-	3.7	12.8	3	2.2	2.8	3	2.3	3.4	3	1.5	9.0	-	6.0	-	1.7	8.0	8.0	1.8	9.5	5.5	1.2	1.6	0.7	8.9	4.2
	02(%)	1.2	11.5	15	12	0.8	16.6	19.2	19	20	17.5	7	18.5	19.5	19.3	17	19	18	18.5	20	21	20.5	19.8	20	19.2	20.3	20.8	19.3	4.5	13	18.5	19.5	20.5	9.0	16.3
	Vacuum("H2O)												9	7	9	7	6.5	6.5	7	10	8.5	11	6.5	11	7	17	7	6.5	7.5	7	18	13			
	Temp(C)	15.6		15.4	13.1	18.4	13.5	15.4	16	13.3	14.4	16.8	17.9	16.6	13.7	14.7	13.5	15.5	17.3	14.7	12.1	13.6	12.9	15.2	14.5	10.4	11.6	13.4	15.5	16.5	12	11.2	14	13.2	16.2
Middle (5.5')	TPH(ppm)	9	73	20	899	50	74	99	62	10	899	09	2,6	70	64	55	99	20	75	58	15	30	25	90	38	8	20	52	40	55	30	26	48	55	25
	CO2(%)	15	9.2	4.8	6.7	12.4	4.7	2.8	3.3	-	4.9	16	3.6	5.2	3.2	3.6	2.8	4	5.4	2.2	9.0	1.6	1.5	2	3	1.2	0.8	4	15.5	11	1.5	1.8	12.8	11.8	3.8
	02(%)	3	12.3	15.5	12.8	5	16.8	18.9	18.5	20	16.1	1.8	17.8	16.1	19	16.8	18.5	17.8	15.8	19.5	21	20	19	161	18	19.7	20.8	17	2	6.9	18	19.5	-	5.9	17.2
	Temp(C) Vacuum("H2O											5.5	9	9	7	5	5	5.5	6	6.5	5	9	5.5	5	6.5	9	5.5	89	7	9	18.5	9			
	Temp(C)	20.9	20.1	21.6	20.7	21.5	20.7	•	•	•	•	•	•	٠	•		•	•	•	•	•	•	•	•	•	•		•			٠	•	•	•	•
	Œ.	99	71	89	25	20	23	93	53	20	20	8	75	70	65	55	9	n	и	99	8	38	40	40	46	20	30	52	46	09	32	30	9	55	62
	ਗ਼ਾਂ	10.2	9	4.8	6.5	80	4.5	3.4	4.3	1.6	5.9	7.3	3.5	7.2	3.5	4	3.5	9	7.3	3.5	1.7	2	3.5	3.1	4.8	6	1.2	2	14.5	8.5	1.5	1.9	7.7	10	3.9
	02(%)	6	15	15.6	13.5	11.3	17	13.3	17.4	20	15.5	11.8	18	14	18.8	17	17.8	15.5	14.3	18.4	20.5	19.5	17.2	18.2	16	19	20.4	16	3.5	=	19.3	20	3.5	10.3	17.5
Monitoring	Point	-	2	3	4	2	9	7	80	6	92	=	12	13	14	15	91	12	18	19	20	21	22	23	24	22	26	22	88	52	8	31	32	33	ਨ

FE Warren Initial Data Belore the Blowers Shuldown (8/16/93)

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	a	Kemarks																																	
	O2(%) CO2(%) ITH(ppm) Temp(C)Vacuum("H2O O2(%) CO2(%) ITH(ppm) Temp(C)Vacuum("H2O O2(%) ITH(ppm) Temp(C)Vacuum("H2O O2	Vacuum(F120																																	
(8.0.)	(Complete	ppin temp(C)							.				8		2	9	0	8	20	9	0	0				9	9	0			9		00		0
Deep (8.0°	W. Indian.	2 1 1 1 2	+	+	+	+	+	2 2	1	<u> </u>	+				_		. 20	78	86	65	30	8		30	51		7 26	110		48	_		4	_	
-	K1 C03/		\downarrow	\perp	3 3	<u> </u>	ļ	+		_	-	┞-		5 2.6	9 2.4		2 0.8	3 2	8 2.9	1	5 0.5	2 0.6	0.8	2 0.7	1	9.0	5 0.7	2 1.9	_	2	7 0.9	1.2	14.5	-	H
\vdash	00,00		771	의 : -	2.	1.5		2	19.5	20.4	17.6	2.2	18	18.5	18.9	20	20.2	18.3	17.8	19.8	20.5	20.2	20	20.2	19.5	20.8	20.5	13.2	7	17	19.7	20	3.2	20.5	15.5
	Vacuum("H"	1																																	
,	Temp(C)																																		
Middle (5.5')	IPH (ppm	7	9 8	3 8	8 2	5 5	87	8	120	8	86	n	74	75	7.1	80	99	85	100	80	46	25	09	54	11	20	40	120	20	85	43	40	190	29	83
2	CO2(%)	8 Y	9.0	2 2	3.0	1	2.2	23	2.8	9.0	4.7	8.8	2.8	4.5	2.9	2.2	1.4	4.8	5.6	2.2	0.8	0.7	1.8	1.2	3.3	0.7	0.7	4.4	10.5	7	0.5	0.7	13	10	4.9
	02(%)	13.7	11.5	2	5 4	15.5	18.5	18.6	18.3	20.3	16	8.5	18	14	18.5	19	19.5	15.5	14.5	19	19	20.2	19.6	19.5	17.5	20.6	20.5	15.2	6.5	Ξ	20.5	92	4.5	2	14.5
	Vacuum("H2O																																		
(Temp(C)																																		
Shallow (3.0°)	[PH(ppm]	2	2	76	2 %	3	88	82	130	110	86	82	74	71	20	78	73	87	96	8	99	99	78	65	82	73	120	120	80	S	S	20	8	72	76
เร	CO2(%)	3.9	33	4	0.3	1.9	4.2	2.6	2.8	9.0	4.4	7.3	3.4	6.5	3.2	2.2	2.3	5.2	7.2	4	-	13	3.8	2.9	4.2	2	6:0	S	9.6	8.9	8.0	9.0	0.3	9.5	4.8
		14	17.6	2	2	19.2	16.5	18.6	19.8	20.2	16.3	10.1	17.3	15.5	18.2	18.2	18.8	15	13	17	20	19.5	16.3	18	16.5	19.2	20	9.4	9	12.2	20.4	20.5	21	9.5	15.3
Monitoring	Point	-	2	6	4	2	9	7	80	6	10	:	12	53	14	15	16	17	18	19	20		22	23	24	25	76	27	28	29	90	31	32	33	34

FE Warren AFB Soll Gas Monitoring Data (9/20/93)

	T		Ī	T	1	1.	Τ	Τ.		Ι.	Ī		alic	1 5			Ι,	١,				[0	7	Ī		Ī	Ī	Ī	T.		T			T
	Remarks				Standing water	Standing water	Clarican 6 water	Standing Maler	0	Standing water	0	1. *: has no probe:	2. TP14 values in italic	are readines used 1	dilutor.		Standing water	Standing water	0			Standing water								Standing water			HC smell deep	HC smell deen	
	Vacuum("11e)	9	7	5.5	7	9	6.5	9	9	9	7	6.5	6.5	9	9	9	7.5	6.5	6.5	6.5	9	9	7.5	7	6.5	7.5	9	7	9	7	6.5	9.5	7.5	=	,
	Temp(C)	18.1	18	18.3	20.9	19.8	20.4							•			•	•		•	٠	•	•		•	•		٠	٠	•	•				
Deep (8.0')	TPH(ppm) Temp(C)	130	120	110	120	120	110	81	81	40	100	110	88	77	82	3	ন্ত	8	110	93	16	02	ß	40	8	91	24	100	100	8	19	140	2900	1000	00.
	CO2(%)		12.5	10	14.5	13	7.6	9	3.5	0.8	2.8	9.7	3.2	2.2	3.2	::	8.0	2	5	1.2	9.0	9.0	0.7	9.0	1.8	9.0	9.0	3.4	9.7	1.7	1.3	15	17.5	14	,
	02(%)	0.5	5.5	2.6	0	3.4	=	18	18	20.5	18.2	6.5	17.8	19.2	18.2	92	20.3	18.8	15	19.8	21	20.6	20.2	20.6	19.4	21	20.5	15.5	3.2	18.7	19.7	19	0	0	17.2
	Vacuum("Hg)	5.5	9	9	6	5.5	6	6.5	9	5.5	6.5	7	5.5	5.5	9	7.5	6.5	5.5	9	5.5	7.5	6	6.5	11.5	7	17.5	6.5	7.5	9	9	17.5	17	17.5	10.5	3 9
	Temp(C)	19		20.5	19.5	19.9	9.61	8	21.1	21.3	21	20.2	20.4	23	21.3	18	18	19.8	24	22.1	18.2	17.9	18.1	18.2	18.5	16.6	16.7	18.9	20.4	20.4	16.3	16.2	17.7	16.5	10.6
Middle (5.5')	TPH(ppm)	130	110	110	120	110	100	100	100	05	110	95	93	95	85	85	20	100	100	88	40	40	ಜ	09	100	40	35	90	100	100	09	140	190	140	140
-	CO2(%)	15	10	9.6	12.3	10	6.3	3.2	3.8	1.1	2	7.5	3.8	5.8	3.7	2.4	1.6	3	8.1	2.8	0.7	0.8	13	6.0	3.2	-	0.7	6.2	12	6.8	12	0.8	14.5	9.4	4.2
	02(%)	2.1	80	1.8	8.0	7.8	12.6	17.8	12.5	20.2	16	11.5	17.2	15.5	17.8	19	19.6	18.1	11.3	19.2	20.5	19.9	19.3	20.2	18	20	20.5	11.5	2.5	11.5	19.8	19.5	3.2	8	16.5
	Vacuum("Hg)	0.5	2	5.5	2	2	5.5	12.5	9	5	5.5	S	4.5	2	5.5	5.5	5	2	7.5	5	4.5	2	5	2	5.5	9	2	7	5.5	5.5	5	25	19.5	5.5	9
	Temp(C)	17.6	17.6	19.4	19.8	18	18.7	•	•	•	•	•	•	•	•	•	•	-	•	•	•	•	•		•	•		•	-			•		•	•
~	Dm)	120	200	205	110	300	100	20	011	3	120	8	93	97	83	8	88	011	100	8	8	9	92	8	81	20	52	100	100	100	3	091	190	110	130
	9	11.6	7	8.9	2	7.8	6.3	3.6	4.5	1.7	9	6.9	3.8	6.5	3.7	2.6	2.4	4.6	9.4	4	60	12	33	1.9	3.8	2.1	6.0	80	10.5	5.5	6.0	9.0	4.5	8.2	3.8
	<u> </u>	5.5	11.7	2.1	10.2	10.8	12.5	17.5	16.6	20	15	12	17.4	14.4	17.5	18.8	18.8	16.5	01	17	20.3	19.6	12	19.1	12	19.2	20	8.8	4.4	13.8	19.8	20.5	15.5	10.8	17
Monitoring	Point	-	2	3	4	2	9	7	80	6	01	=	12	2	14	15	16	12	28	19	20	21	77	22	24	22	26	22	28	29	8	31	32	ន	34

FE Warren AFB Soll Gas Monitoding Data (10/16/93)

		Kemarks		challon or more	ACHI CHI MOHERE	1 % has no proha	7 TPH value is it slice	c. 11 11 Values in malk	dilutor																								HC smell deep	HC smell deen	Start pt, @8:30am
	V-Current Annual V	Vacuum rig)	3.5	4.5		5.5	7	3.5	5.5	-	2	4.5	45	5	4.5	4	2	5	4.5	4	5	5	2.50	2	-	9	2	5	9	25	2	99	4.5	80	5.5
		15 15	15.6	15.8	17.4	15.8	15.7	•			•				-					•	•		•						•		•				
10 W 00	TPH(nom)	110	130	140	120	110	120	1 2	8	×	110	120	82	9	100	R	46	26	110	20	01	10	9	40	98	20	20	80	110	8	55	45	009	1000	100
	CONE		45	9	1.8	7.9	2.8	-	1.8	9.0	2.8	6.2	13	-	1.6	0.7	0.7	-	2.3	1.5	9.0	9.0	9.0	9.0	-	0.7	0.7	2.2	5.1	-	1.5	1.7	17	12	3.1
	02/%)	10.5	16.8	18	19.1	10	18.3	20.2	19.5	20.9	18.2	12.5	19.8	20	19.8	20.8	20.6	19.2	18.9	19.8	20.9	20.8	20.7	20.8	20.2	20.8	20.8	18.7	12.7	19	92	20	0	0	17.8
	Vacuum("He)	3.5	3.5	4	5.5	5	7	3.5	4.5	3	3.5	5	5	4.5	7	3.5	4	5	5	3.5	6.5	9	4	6	3.5	13	5	4.5	5.5	5	16	14.5	14.5	7.5	5
	Temp(C)	15	n/a	17	16.8	15	16.3	14.9	16.2	17.2	17.9	16.2	15.6	18.9	17.9	13.5	14.4	16.2	19.5	18.1	13.9	13.6	14.6	14	14.5	16.5	13.7	15.7	17.2	17.8	12.6	12.8	15.1	14.4	9.6
Middle (5.5')	TPH(ppm)	120	115	140	120	120	120	100	8	40	110	120	84	96	100	73	64	92	120	8	30	40	09	09	100	20	26	100	110	130	20	30	100	140	110
	CO2(%)	8	3.6	23	2.6	7.3	2.3	-	2	9.0	3.3	4.3	1.8	2.8	2	1	6:0	1.7	3.8	2.6	9.0	0.7	0.8	0.8	1.8	6.0	0.7	4.8	7.4	3.5	1.1	0.8	13.6	6	3.7
	02(%)	11.6	17.8	19	18.6	11.5	18.8	20.2	19.5	20.8	18	16	19.5	18.8	19.3	20.2	20.3	19.5	17.5	19	20.9	20.4	20.2	20.5	19.6	20.2	20.6	15.4	10.5	17.2	20	20.	4.2	6	17.5
	Vacuum("Hg)	4.5	2.5	4	4	21	3	10	3.5	2.5	4	3.5	3.5	3.5	3.5	3	5	3.5	6.5	3.5	3.5	3	3.5	4	4	2	3.5	5	4.5	4.5	3.5	3	18	-	5
	Temp(C)	13.3	13.9	15.3	15.3	13	14.1		٠	•	٠	٠	٠	•	٠	٠	٠	٠	٠	•	•	•	-	•	•	٠	•				•	•		•	
Shallow (3.0')	Tl'11(ppm)	110	115	130	110	•	115	100	98	S	120	120	8	8	001	74	48	911	120	100	ਲ	48	100	33	25	74	Ŧ	011	120	120	47	8	120	130	100
	CO2(%)	6.3	3.2	2	22		2.2	-	22	0.7	3.6	3.9	1.8	3.1	2	Ξ	0.7	2.7	4	33	9.0	0.8	1.5	-	-	1.8	-	9	6.4	2.8	-	0.8	7.2	7.3	33
	02(%)	13.9	18.2	19	19	•	19	20.1	19.2	20.5	17.7	16.4	19.3	18.5	19.2	20.2	20.7	18.9	12	18.2	20.9	20.4	19.6	20.2	20.1	9.61	20.2	14	12	18.5	20.3	20.8	11.6	12.1	18.2
Monitoring	Point	1	2	3	4	2	9	7	80	6	10	=	12	13	14	15	16	17	18	19	80	21	22	ß	24	25	26	22	28	52	8	31	32	33	8

FE Warren AFB Soil Gas Monitoring Data (12/17/93)

Γ	T	\top	$\overline{}$		(ا	are	=	-		-			_	1	i.	Ī	<u> </u>	Ī	1	1		li-	Ī	i	i	1	Τ	1	T	1	T -	,]	, [
) Kemarks					I. ": has no prob;	2. values in italic an	readings used 1:1	dilutor.																							FIC smell @ form	HC small @ lang	Creat - 1 80 00
	V-21	Vacuum(THg)	2 :	12	21	2 5	71	=	70	10		70	12	2	01	2	21	2 2	2 2	=	: 9	2 4	12	6	=	9	=	12	20	12	12	=	7	2	: 2
		=	0.0	00	0, 2	9.0	9	3.1	•				•	. .									-					•			-				1.
Dean /8 0"	TPI-Monm)	130	3 5	971	130	301	621	120	8	88 3	8	MOLI CIL	021	8 5	8 8	8 5	8 8	8 8	2 8	9	62	8	97	15	36	42	120	120	130	28	47	78	2000	1000	25
	(%)(%)	_		2.6	2 2	2 4	3 6	5.5	1.7	2.2	200	A COLON	2	200) :	7.	3 0	20	,	0.8	0.8	9.0	0.7	9.0	9.0	0.7	4.2	3.9	6.5	9.0	0.8	1.2	12.5	9.5	5.7
	03/%)	9 5	2,4	2 4	3 4	123	2 5		19.5	19.3	CO2	200	65.1	200	Cal s	19.0	205	20.5	19	20.2	20	20.6	20.2	20.8	20.5	16.2	13.5	15	10.5	20	20	19.5	2.3	23	11.8
	Vacuum("He)	10	12	=	12	=	13	71	01	8 =	=	2	71	91	2	2 5	6	=	10	10	=	=	10	16	10	12	10	12	15	13	18	16	20	12	13
				3.6	83	6	2	, 0,	4.3	7.4	83	5.5	3.6	7.2	: []	5.3	6.7	6.5	8.1	8.9	9	4.1	5	3.9	5.2	5.6	5.6	5.4	9.2	6.2	4.3	5.4	8.9	7.8	8.6
Middle (5.5")	TPH(ppm) Temp(C)	130	120	120	130	120	011	8	8 5	3 5	100	011	74	82	8	74	28	8	120	74	52	48	09	33	53	30	120	130	130	26	42	32	110	120	120
-	CO2(%)	80	4.9	4.7	9.2	4.7	2.7	,	3.4	0.6	2.2	33	-	1.4	^		9.0	9.0	9	6.0	6.0	0.7	6.0	9.0	0.9	9.0	8.8	4.8	80	2.3	0.8	0.7	6.5	6.5	5.1
	02(%)	01	7	1.5	5.6	15	17.5	19	10	20.5	19	17.3	20	19.7	19.3	20.5	20.5	20.2	18.3	20	19.7	20	20	20.5	20	16.5	13	13.5	7.8	18.2	20	20.5	9.5	11	12.5
	Vacuum("Hg)	10	11	12	6	11	10	16	00	8	12	10	10	01	5	=	80	6	10	6	80	15	6	12	6	12	89	01	12	6	10	12	ន	2	13
	Temp(C) Va	0.5	6.0	1.5	2.4	0.5	9.0				•						•	•	٠	•	•	-	•	•	•	•	•	•	-	•	•	•	•	-	•
Shallow (3.0')	TPH(ppm)	130	110	110	120	120	110	100	100	99	105	100	74	ಜ	16	25	89	70	110	78	99	57	74	Z	3	88	120	130	130	8	25	20	021	no flow	170
	CO2(%)	5.5	4	4.2	7.5	4.9	3.3	2	2.4	0.7	2.7	2.8	1.1	1.4	2.2	1	6.0	1.5	3.1	1.3	0.8	6.0	1.5	6.0	-	1.6	3.7	6.5	7.8	1.6	6.0	0.7	5.2	no flow	4.7
	02(%)	13.5	10.5	2.8	80	15.3	16.5	19	19	20.5	18.5	17.8	19.8	19.7	19.2	20.2	20	19.6	18.2	19.8	20	19.6	19.5	20	20	16.8	12.5		///	19.4	22	20.5	13.2	no Now	12.8
Monitoring	Point	-	2	6	4	2	9	7	80	6	10	=	12	13	14	15	16	17	18	19	20	21	72	23	z	2 2	92	/2	87	67	8	33	32	33	æ

FE Warren AFB Soil Gas Monlloring Data (1/15/94)

		T	Ī	(J					I	T	Ī			T	Î		Ī				(1			+		Ī			O am		T	
	Remarks					1 % has no months.	7 Tild in prope;	2. 11 11 Values III IIalic	are readings used 1:1	dilutor.																						Amb. temo.=3.0 C @ 9.00 am	HC smell @doen	HC smell @deep	Started point @ 8:30am
	TPH(ppm) Temp(C) Vacuum("H"		, ,	,	,	-		-	- :	2 -	- 2	5.9	7	7.5	œ	0	0		7.5	8	7.5	10.5	6	6	6	=	9.5	6	10	=	9.5	10.5	12	15	12
	Temp(C)	8,	8.8	8.4	0.4	0.6					•						-										•			٠			•		
Deep (8.0°)	TPH(ppm)	011	82	9	130	8	2	2 2	3 3	24	20	140	29	25	08	96	22	100	80	57	24	26	15	9	8	30	5	9	160	100	09	29	1800	780	85
	CO2(%)	1.7	10	0.8	2.5	13	0.8	90	2	9.0	0.8	3.6	9.0	0.7	0.0	1.2	0.5	1.4	6.0	0.7	0.8	0.5	9.0	0.8	1.3	9.0	9.0	9.0	43	2.0	6:0	1.0	12.5	10.8	1.5
	02(%)	19.1	19.5	18.8	18.0	19.7	20.0	20.8	30.8	210	20.5	15.5	20.5	20.8	20.2	20.2	21.0	20.0	20.4	20.8	21.0	21.0	21.0	20.5	20.4	21.0	21.0	20.8	14.5	19.0	20.5	20.8	1.5	3.0	19.5
	Vacuum("Hg)	3	2	2	2	2	2	1.5	-		6.5	6.5	9	7	8	80	=	89	89	7.5	6	10	80	=	8.5	12	10	6	9.5	9.5	16	15.5	19	15	13
	Temp(C)	4.9		6.3	8.9	4.3	8.6	6.2	99	7.8	9.0	6.7	4.0	7.0	8.1	5.2	7.0	6.7	7.7	9.2	5.8	4.5	6.2	4.8	0.9	6.7	6.8	6.4	8.4	6.2	4.4	5.0	9.9	8.7	10.3
Middle (5.5')	TP14(ppm)	65	g	20	. 95	3	48	42	47	a	120	120	99	90	65	8	2	120	8	63	20	40	45	8	100	જ	9	110	150	150	09	52	150	140	80
	CO2(%)	1.4	6:0	9.0	13	9.0	0.7	9.0	0.7	0.5	1.9	2.3	9.0	1.0	1.4	1.3	0.8	1.9	6.0	0.8	9.0	9.0	0.7	9.0	1.7	0.8	0.7	2.3	4.3	5.3	6:0	0.8	10.0	4.8	13
	02(%)	19.5	19.7	18.2	19.0	20.5	20.3	20.8	20.8	21.0	19.6	19.0	20.5	20.5	20.0	19.7	20.2	19.5	20.0	20.5	21.0	21.0	20.5	20.2	19.8	20.9	20.8	19.8	15.4	14.2	20.5	20.8	6.2	14.5	20.0
	Vacuum("11g)	5.0	2.0	1.5	1.5	2.0	2.0	1.0	1.0	1.0	0.9	6.0	0.9	0.9	7.5	7.0	7.0	0.9	9.0	2.0	6.5	2.0	6.0	8.0	8.0	10.5	19.0	9.0	8.0	10.0	8.0	13.0	22.0	12.0	13.0
	Temp(C)	2.3	3.7	2.6	3.3	2.1	2.2	•		•	٠	•	•		•	•	•	٠	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	
Shallow (3.0')	TPH(ppm)	8	59	33	105	2	23	8	26	36	120	120	3	8	8	100	88	011	110	75	R	22	85	28	110	74	no flow	120	150	140	ਲ	88	88	120	n
_	ठ	1.3	9.0	8.0	1.5	6.0	0.7	0.5	0.7	0.5	2.2	1.3	9.0	0.1	1.4	1.2	1.0	2.1	1.7	6:0	0.7	0.7	1.5	9.0	1.9		3	2.5	6.4	3.8	0.7	0.8	1.3	3.5	1.2
	02(%)	19.7	20.0	18.5	18.2	20.2	20.3	20.8	20.6	21.0	19.3	18.9	20.5	20.3	20.0	19.8	20.0	19.3	19.8	20.5	20.9	20.7	19.5	20.3	19.5	20.5	no now	19.5	11.5	16.7	20.5	21.0	19.2	17.5	20.0
Monitoring	Point	-	2	3	4	2	9	7	89	6	10	=	12	13	7	15	16	17	18	19	20	21	n	23	24	25	26	a	28	82	8	31	32	33	ř

FE Warren AFB Soil Gas Monitoring Data (2/12/94)

			114	(T						1		i		Ī	1	Ī		Ī		I				1	i					Τ		T	T
		Kemarks					I. ". has no probe;	2. IFFI Values in Italic	are readings used [:]	dilutor.																							HC smell Odeoth	HC smell @denth	
	TPH(coo) T	v actumin rig	2 2	2 =		6	2 2			2	3	3 =	101	6	2	20	92	9	2	9.5	0	100	=	2	6	10	10	9	20	01	101	=	12	1	
	T(C)	temple)	77	200	2.2	707	4.7	e ·				1.									-	•												•	
Dan W Ort	TPH(nom)	120	150	170	175	130	25.	3 6	077	3	Po Gow	51	78	S	9	no flow	88	88	120	44	7.	24	26	22	99	88	36	35	no flow	8	74	23	2,100	1,000	5
	CONE	_	2 4	3.7	100	200	2 2	3 2	2 :	270	No flow	7	0.8	0.7	1.0	no flow	0.5	9.0	1.6	0.7	0.5	0.5	0.5	0.5	0.7	0.5	0.5	6:0	no flow	19.8	0.1	6.0	15.5	15.0	2
	02(%)	13.2	9.2	0.5	3.2	14.2	16.2	19.7		20.0	no flow	12.6	20.4	20.6	20.5	no flow	20.9	20.9	19.5	20.8	20.9	21.0	21.0	21.0	20.8	21.0	21.0	20.9	no flow	8.0	20.5	20.5	0.0	0.0	19.5
	Vacuum("Fle)	6	6	01	16	6	=	6		12	12	10	6	=	10	10	6	9.5	9.5	6	10	=	6	13	9.5	16	10	6	6	6	17	16	17	=	6
	Temp(C)	_		2.8	5.2	0.5	4.6	2.5	33	3.4	5.1	3.1	9.0	3.4	3.7	2.5	4.1	3.9	4.6	4.9	4.0	3.8	6.7	9.9	5.8	4.4	4.6	43	6.7	4.7	3.7	7.2	5.0	5.4	6.3
Middle (5.5"	-	-	170	130	180	160	140	25	2	25 25	130	140	8	%	8	74	44	88	140	78	\$	49	32	40	3	52	52	80	160	120	46	99	170	200	8
_	CO2(%)	6.7	4.0	3.2	6.8	3.9	3.3	13	3.5	0.7	1.8	3.2	6.0	1.2	1.5	0.8	9.0	9.0	2.4	0.8	9.0	0.7	0.7	9.0	1.0	0.7	0.5	2	4.7	2.0	1.0	0.8	10.2	4.8	6:0
	02(%)	12.6	10.5	1.9	9.6	16.4	16.5	20.2	20.0	20.8	19.5	17.8	20.2	20.3	20.2	20.6	20.8	20.5	18.0	20.5	20.8	20.5	20.8	21.0	20.2	20.8	21.0	20.0	14.7	18.9	20.5	20.7	6.2	14.0	20.0
	Vacuum("Hg)	9.0	8.0	9.0	9.0	8.0	9.0	15.0	8.0	8.0	9.0	8.0	8.0	8.0	9.0	9.0	8.0	9.0	10.0	8.0	8.0	9.0	8.0	8.0	8.0	9.0	19.0	10.0	8.0	20.0	9.0	8.0	20.0	8.5	20.0
	Temp(C)	-0.6	-0.8	-0.7	0.1	-1.7	-1.6				٠		•			•		•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	
Shallow (3.0")	TPH(ppm) Temp(C)	170	130	110	160	150	160	no flow	100	99	130	135	88	100	8	78	2	300	140	95	46	9	20	46	8	6	no flow	130	150	mo flow	æ	62	no flow	8	no Now
S	CO2(%)	6.9	2.6	2.6	5.0	2.8	3.3	woll ou	1.8	0.8	23	2.5	8.0	1.2	1.8	8.0	8.0	1.2	2.7	0:1	0.7	0.7	8.0	0.7	0.	=	no Now	1.6	3.8	no Jow	0:1	0.7	2	2.7	no flow
	02(%)	12.5	15.0	5.0	11.5	16.5	16.5	no flow	19.7	20.6	19.2	18.4	20.5	20.0	19.8	20.5	20.5	20.2	18.8	203	20.6	20.7	20.4	20.B	20.3	20.3	no Now	19.5	16.2	no Now	20.5	18.9	>1	17.5	woll on
Monitoring	Point	-	2	3	7	2	9	7	89	6	01	=	12	13	14	15	16	17	18	61	20	21	22	23	24	25	26	<u>""</u>	28	æ	8	31	32	33	ੜ

FE Warren AFB Soil Gas Monitoring Data (3/26/94)

Γ	T	T	1	(T		1	1		-	1	Ī		Ī			Ī	1	Ī		(-)	1	1	ļ	ì	1	Ī	<u> </u>	j	T	T	_
		Kemarks					I. ": has no probe;	2. I FH Values in Ralic	are readings used 1:1	dilutor.																							HC smell Octouth	HC smell Orlenth	
		in tipping temple, vacuum (11g	2		2 2	18	C.	,	9.5	6	201	6	. 9	9 5	9.6	2	6	0	1	9.6	0	2	2 2	12.5	12.5	9.5	9.5	10	9.5	13.5	10	=	9	=	9.5
	TumpfOr	remp(r)	7 5	0.0		0	70														1.			-					-		•				-
D. 10 (0 0°)	TPH(nom)	ruddhi i	8	3 8	7 2	00.	2 6	10	2	29	2 5	130	38	S	69	88	26	27	9	28	43	12	75	16	3	3%	9	98	130	23	57	40	1,600	260	80
	CO2/453		3.3	3	1	3 2	7:7	9 0	9	1.3	1.2	157	60	0.7	1.0	0.5	0.4	0.4	1	0.4	0.7	0.3	0.3	0.3	0.8	9.0	0.3	1.6	3.8	0.5	1.0	0.8	14.3	14.0	13
	02/%)	210	17.0	19.4	10.5	9	105	300	50.5	19.9	200	16.0	20.1	21.0	20.5	20.9	21.0	21.0	20.0	21.0	20.2	20.8	20.5	21.0	20.5	20.6	21.0	19.0	16.0	20.7	20.5	20.4	0.0	0.0	20.0
	Vacuum("11v)	0	, 0	12.5	14	0	10.5	0		y 8	13	9.5	6	6	6	13	6	6	13	6	10	=	9	12.5	7.	17.5	9.5	10	6	12.5	17.5	16	16	=	9.5
	Temp(C)	-	•	4.8	7.6	9.5	3	104		4.0	0.9	6.7	5.3	5.2	4.8	6.3	6.3	7.0	8.9	6.2	8.4	=	ž	5.4	7.1	5.4	4.9	4.8	7.5	7.2	3.9	5.0	6.2	6.2	7.3
Middle (5.5')	+		8	2	2	125	78	48	2 2	3 %	8	91	В	23	18	57	33	4	88	9	48	33	88	32	78	46	18	100	120	74	88	40	300	150	74
-	CO2(%)	+	3.0	1.5	1.8	6.8	1.5	0.7	1	0.4	1.8	3.2	1.2	1.4	1.3	9.0	9.0	0.7	2.0	9.0	8.0	9.0	0.5	0.4	1.2	0.7	0.3	3.0	5.1	2.0	1.0	8.0	10.8	6.3	13
	O2(%)	15.0	18.5	19.8	19.7	12.8	19.5	20.5	30.0	21.0	19.5	18.0	20.2	20.0	20.7	20.6	50.9	20.8	19.7	20.6	19.9	20.8	20.4	21.0	20.2	20.3	21.0	17.2	14.0	19.0	20.2	20.3	0.9	12.3	20.0
	Vacuum("Flg)	8.5	8.0	12.0	8.0	8.0	8.0	14.0	011	10.0	12.0	8.0	8.0	8.5	8.5	10.5	8.0	9.0	14.0	8.0	8.0	8.0	8.0	8.0	11.0	8.0	9.0	10.5	8.0	8.5	8.5	8.5	19.0	8.5	9.0
	Temp(C)		4.5	4	6.1	4.6	5.1					•		٠	٠	٠	•	•	-	•	•	•		•	•	•	•	•	•	•	٠		•	•	-
Shallow (3.0°)	TPH(ppin)		3	29	n	120	75	57	82	8	89	100	и	8	82	62	64	20	93	3	28	40	63	47	99	75	53	120	120	29	9	44	no flow	140	83
J.	CO2(%)	4.2	2.5	1.2	1.5	4.2	1.5	6.0	1.5	0.5	2.3	2.8	1.	1.7	1.5	6.0	9.0	<u></u>	2.3	1.2	9.0	0.5	9.0	9.0	1.5	13	8.0	4.0	5.0	1.6	1.0	0.7	no flow	4.5	1.2
	O2(%)	16.7	19.0	19.8	19.5	16.0	20.0	20.2	20.0	21.0	19.0	18.2	20.2	20.0	20.3	20.5	20.7	20.2	19.3	20.2	20.0	20.3	20.0	20.8	19.8	20.0	20.2	16.0	14.0	19.2	20.2	20.3	no flow	15.6	20.2
Monitoring	Point	-	2	3	+	5	9	7	80	6	10	=	12	13	14	15	16	17	18	19	2	21	22	ß	24	25	92	27	28	82	8	31	32	R	33

TFE Warren AFB Soil Gas Monitoring Data (4/23/94)

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	Dumarke	Acillates				1. *: has no neolw	2 TPH values in italic	are cearlines used 1-1	dilutor.																amb. temp. 20.3 C @ 9.00	amb. lemp. 22.3 C @10.30							IIC smell @depth	HC smell @depth	
	Temp(C) Vacuum("H"	0	12.5	10	13	6		6	6	6	14	6	6	9	13	8.5	6	12.5	6	6	13	12.5	10	9.5	6	13	13	10	6	13	2	10.5	=	15.3	6
	TempiC	7	5.7	6.1	7.6	7.3	7.6				•														٠	•	•	•		•	•	•	•		
Deep (8 (T)	TP14(nonn)	100	100	80	8	8	20	53	2	26	48	95	53	8	છ	#	%	8	88	32	20	19	30	18	45	38	17	65	06	40	54	약	2,000	1,000	74
	CO2(%)	2.0	4.4	3.7	11.0	6.5	2.2	1.3	1.5	0.4	6.0	4.6	0.8	0.5	1.0	0.5	0.4	0.4	13	0.5	0.7	0.2	0.3	0.2	9.0	9.0	0.4	2.4	4.7	6.0	9.0	0.5	5.0	13.8	1.4
	02(%)	8.2	12.5	5.4	2.8	11.11	18.0	19.2	19.3	20.5	19.8	15.3	19.8	20.5	20.0	20.5	20.3	20.4	19.5	20.5	20.0	20.9	20.8	20.8	20.2	20.2	50.9	18.0	14.5	20.0	20.3	20.5	14.0	0.0	19.8
	Vacuum("11g)	6	80	12	13.5	80	14	8.5	8.5	8.5	8.5	6	20	6	12.5	10	11	12	6	6	13.5	14	6	12.5	10	17	13	9.5	6	6	17	15.5	17	10.5	6
	Temp(C)			5.4	8.2	8.4	6.8	9.9	7.3	5.3	0.9	8.4	7.2	6.2	5.5	7.5	7.1	8.1	6.8	7.1	5.4	6.1	not reading	7.4	7.9	5.0	5.5	6.1	8.2	7.9	4.7	5.5	7.3	6.7	7.5
Middle (5.5')	CO2(%) TPH(ppin)	100	100	80	91	8	73	28	20	32	89	85	20	88	77	48	42	44	76	35	54	30	8	26	70	40	20	88	93	82	09	30	130	130	74
	CO2(%)	6.5	4.0	3.8	9.0	4.5	2.3	1.4	1.7	0.5	1.7	3.2	1.2	1.3	1.3	1.0	9.0	6.0	2.3	0.7	0.8	0.5	0.5	0.5	1.3	1.0	9.0	3.9	6.5	2.8	0.7	0.5	4.2	7.0	1.6
	02(%)	10.0	14.0	5.7	5.0	15.0	18.0	19.2	19.2	20.5	19.4	17.2	19.8	19.7	19.7	19.9	20.3	20.0	18.6	20.4	20.0	20.5	20.5	20.5	19.7	20.0	20.6	16.0	12.2	18.0	20.4	20.5	15.5	11.3	19.7
	Temp(C) Vacuum("Hg)	8.0	7.5	8.5	10.0	8.0	8.0	14.0	8.0	12.5	8.0	7.5	7.5	10.0	12.0	7.5	7.5	7.7	9.5	7.5	11.5	10.0	8.0	8.0	11.0	12.0	8.5	10.0	8.0	7.5	8.5	8.0	19.0	8.5	9.0
	Temp(C)	11.1	10.3	9.6	=	11.6	10.3	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•	•		-	•	•	•	•	•	•
Shallow (3.0')	TPH(ppm)	100	92	90	87	90	29	\$9	78	40	26	2	9	88	82	88	48	74	æ	ę	62	37	88	7	83	8	8	94	95	90	99	100	no Now	120	8
	CO2(%)	5.2	3.0	3.7	7.0	3.5	2.9	1.7	2.2	0.7	2.3	2.3	9:0	1.9	1.6	1.2	9.0	1.7	2.9	=	1.2	0.7	1.0	8.0	2.0	1.8	=	2.0	8.9	2.5	9.0	0.7	no Now	5.2	1.6
	02(%)	13.0	16.0	0.9	7.8	17.0	17.5	19.0	18.9	20.3	19.0	18.2	20.2	19.2	19.5	19.8	20.0	19.3	18.2	20.0	20.0	20.3	20.0	20.2	19.0	19.8	20.0	14.5	12.0	18.3	20.5	20.4	no flow	14.7	19.8
Monitoring	Point	-	2	3	4	5	9	7	8	6	20	=	12	13	=	15	16	17	18	19	8	21	22	ถ	24	22	56	22	28	53	39	31	32	33	ਨ

F.E. Warren AFB Soil Gas MonitoringData (8/3/94)

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	Renarks					1. *: has no probe;	2. TPH values in Italic	are readings used 1:1	dilutor.	3. NR: no readings																							HC smell Odepth	HC smell @depth	
	Temp(C) Vacuum("Hg	12	6	6	10.5	9.5	6	9.5	6	6	10.5	13	13	12	11.5	12	=	6	13	9.5	6	9.8	92	9.5	6	9.5	6	6	6	9.5	9.5	=	12	11.5	6
	Temp(C)	9.6	10.1	ž	14.6	12.5	16.0																												
Deep (8.0°)	+		"	80	25	02	63	25	8	32	39	3	Ş	8	u	R	23	8	15	75	ş	22	9	18	ñ	12	-	19	82	32	8	22	1,700	1,000	42
	CO2(%)	12.0	7.8	7.8	16.0	10.6	3.2	2.4	3.8	9.0	1.2	43	13	8.0	0.7	9.0	0.5	9.0	1.8	1.2	:	0.4	9.0	9.0	9.0	0.7	0.3	33	6.5	0.8	1.2	0.8	15.0	14.3	1.3
	02(%)	3.0	8.7	1.8	1.0	5.6	16.9	17.9	16.4	19.5	19.3	15.3	19.3	20.0	20.2	20.5	20.4	19.9	19.0	19.5	19.9	20.8	20.9	20.9	20.5	20.1	20.1	16.4	12.7	20.0	20.1	20.4	0.7	1.0	200
	Temp(C) Vacuum(THg)	12.0	0.6	8.5	12.0	8.5	10.5	9.0	9.0	8.5	8.5	13.0	12.5	11.5	11.0	13.0	9.0	11.5	9.0	9.0	10.0	11.5	9.5	12.5	8.5	17.0	9.5	9.0	8.5	9.0	17.0	15.5	160	11.5	9.0
	Temp(C)		٠	13.3	12.1	16.6	11.6	13.4	14.0	11.1	12.3	15.1	16.7	13.7	14.4	13.4	12.5	143	16.6	11.0	11.0	12.4	N.	14.3	13.9	10.0	10.5	12.1	14.2	14.7	11.1	10.8	13.2	12.3	14.5
Middle (5.5')	TP11(ppm)	74	"	80	80	29	09	99	20	42	55	92	47	63	49	36	35	20	69	83	2	28	21	30	55	35	19	71	7.8	74	40	77	140	90	88
4	CO2(%)	1.9	7.0	0.0	13.2	6.8	3.0	2.8	4.0	1.2	2.4	4.8	1.6	3.2	1.7	1.0	0.8	1.5	3.3	23	1.3	0.8	0.8	0.7	1.8	1.2	9.0	5.4	9.0	4.1	1.3	0.7	12.5	8.8	2.1
	02(%)	10.3	10.5	1.8	4.2	11.5	17.0	17.8	16.5	19.3	18.5	14.5	19.0	17.5	19.3	20.0	20.0	19.2	17.2	18.4	19.8	20.5	20.5	20.7	19.5	19.8	20.6	13.2	10.0	16.2	20.0	20.4	5.3	10.5	19.4
	Vacuum("Hg)	8.0	8.0	8.5	0.0	8.5	8.0	14.5	8.0	8.0	8.0	8.0	11.0	13.0	8.5	0.8	8.0	8.0	10.0	8.0	7.5	8.0	8.0	11.0	8.0	9.0	8.0	9.5	8.0	9.0	8.0	8.0	21.0	8.5	9.0
		18.8	18.0	18.6	18.4	19.0	18.7	٠	٠	٠	-	٠	•	•			•		٠	•	٠	•	٠	•	٠	•	•	•	•	•	٠	٠		•	
Shallow (3.0")	CO2(%) TPH(ppm) Temp(C)	77	z	8	20	99	3	8	69	89	42	62	99	69	22	53	46	29	7.4	42	9	ਨ	35	4	83	47	47	×	20	72	30	92	no flow	29	2
Ť	CO2(%)	6.9	87	8.0	511	45	3.0	3.2	4.4	1.5	3.2	3.8	1.5	37	2.5	1.9	14	2.8	0.4	1.5	0.1	6.0	1.5	13	3.1	2.2	9.1	7.5	6.5	3.6	1.2	0.7	no flow	7.0	2.5
	02(%)	11.9	14.0	97	5.5	15.0	17.0	17.3	16.0	19.0	17.8	16.1	19.2	16.9	18.5	19.0	19.4	18.0	16.5	19.5	20.0	20.2	19.8	20.0	18.3	19.5	19.5	11.9	12.0	17.0	20.5	20.8	no flow	13.5	19.2
Monitoring	Point	-	2	3	-	5	9	7	80	6	2	=	12	13	7	15	16	17	18	19	R	12	z	23	74	22	38	a	28	&	8	33	32	33	a

F.E. Warren AFB Soil Gas Montoring Data (8/25 26/94)

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	Demarks					1 * hae an neaher	7 Tible and the factor	2. 11.11 Values in Halic	are readings used 1.1	dilutor.	8/26 others on 8/26														amb. temp. 20.3 C @ 9.00	amb. lemp. 22.3 C @10.30							HC smell Odepth	HC smell Odeoth	
	VacuucaV	1.5	2 2			5.5	3 4	2 2	2	5	,	,	5.5	2	2	2	9	2	5.5	2	5.5	5.5	2	9	5.5	5.5	1.5	5.5	2	2	2	9	2	5	2
	Tenno		15.5	not reading	20.8	24.1	320			1.		-				-				•												٠			
Deep (8 0%)	TPH(pom)	120	150	120	18	220	230	150	350	185	200	210	210	140	180	140	140	195	150	170	38	28	8	95	91	19	100	255	180	100	165	115	4,900	1,250	130
	CO2(%)	$\overline{}$	4.5	2.8	1.7	9.8	7.3	08	13.0	6.2	10.5	21.0	25.0	>25	11.5	6.9	5.5	12.3	>25	>25	0.5	0.7	6.0	9.0	2.8	9.0	9.0	6.2	2.7	9.3	1.2	6.0	20.0	16.7	6.7
	02(%)	6.4	14.5	16.0	17.0	7.0	15.9	11.2	0	11.5	12.2	0.0	10.0	23.6	23.0	15.0	18.0	8.7	3.2	14.7	20.7	20.5	19.8	20.0	18.0	20.4	20.2	12.5	18.2	8.9	20.0	20.0	0.0	0.0	18.8
	Vacuum("I fg)	1.5	1.5	2	2	5.5	9	1.5	2.5	1.5	2	2	5.5	2	2	3	2	1.5	3	3	9	6.5	2	3	5.5	14	1.5	5.5	9	2	2	7	8	9	2
	Temp(C)	20.3		20.1	17.6	23.1	17.4	19.7	212	19.1	20.2	21.5	21.4	23.9	20.2	18.8	17.9	20.8	24.3	22.3	16.7	18.1	oot reading	20.0	18.9	15.5	15.9	19.5	22.2	21.0	15.3	15.6	18.9	18.5	22.4
Middle (5.5')	TPH(ppm)	120	140	130	130	220	210	150	160	180	200	220	202	165	180	140	140	200	160	150	93	125	125	135	180	130	120	260	202	195	140	105	240	190	180
	CO2(%)	11.0	3.7	3.0	3.2	9.2	6.5	7.8	10.7	5.6	12.0	16.0	18.3	>25	10.5	6.8	6.0	12.5	>25	>25	0.8	1.6	1.6	1.5	4.4	1.3	0.7	10.3	8.5	9.1	9.0	0.8	15.0	13.3	3.9
	02(%)	8.0	15.5	16.0	15.5	7.2	16.5	12.0	9.7	12.5	11.3	2.0	10.5	11.8	19.0	15.5	17.0	9.0	2.3	11.8	20.2	19.6	16.1	19.1	16.3	19.8	20.0	8.3	10.8	6.6	20.3	20.1	4.9	5.9	17.0
	Vacuum("Hg)	5.5	5.5	5.0	5.5	5.5	5.5	4.0	5.5	1.5	1.5	5.5	5.5	2.0	2.0	2.0	5.5	1.5	2.0	5.0	2.0	5.5	5.0	1.5	5.5	5.5	1.5	0.9	5.5	9.0	2.0	5.0	19.0	5.5	2.0
	Temp(C)	23.3	22.4	24.7	23.9	24.5	23.6	٠		٠	•	٠	•	•	٠	•		٠		•		-	•	•	•	•	•	•	•	•	•	•	•	•	-
Shallow (3.0")	TPH(ppm)	170	140	120	130	210	220	160	180	190	200	210	200	180	180	140	140	195	170	170	120	135	160	170	185	120	145	215	220	195	3	110	no flow	185	180
<u> </u>	CO2(%)	6.9	3.5	2.6	3.1	5.9	6.5	6.5	8.0	4.9	12.0	12.9	9.5	>25	7.8	0.9	2.0	11.8	24.0	23.0	1.2	1:9	3.1	2.6	6.5	2.5	6.0	9.4	12.0	9.4	9.0	_	길	7.8	4.2
	02(%)	14.2	16.0	16.2	15.5	13.2	16.3	13.5	12.7	14.0	10.5	9.5	14.7	10.8	18.8	16.5	17.5	10.0	43	113	19.5	19.5	18.0	18.6	14.2	19.1	19.6	9.0	10.9	20.4	20.4	20.4	no flow	12.7	16.7
Monitoring	Point	-	2.	3.		2	9	7.	å	.6	01	=	12.	13	14	15	16	17.	18	19	20	21	22	z	24	25	26	22	28	62	8	31	32	33	8

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	Remarks					l. ": has no probe;	2. TPH values by italic	are readings used 1:1	dilutor.												skipped monitoring point	skipped monitoring polin	skipped monitoring polist	shipped monitoring point							skipped monitoring polist	skipped monitoring point	HC smell Odepth 6"	HC smell @depth 8"	
	CO2(%) TP11(ppm) Tennp(C) Nacuum("1 lg	5.5	5.5	5.5	2	2	5.5	5.5	-		9	1.5	s	2	1.5	2	7	7.5	5.5	~					1.5	1.5	7	2	2	5.5			~	9	1.5
	Temp(C) V	16.6	16.5		20.2	18.7	20.1																٠				٠						٠		
Deep (8 0')	TP! I(ppm)	250	200	220	230	210	230	230	220	210	220	210	220	170	200	210	200	220	210	180					150	22	8	170	170	180			4,200	1,100	130
	CO2(%)	5.5	2.4	7.7	14.0	16.2	7.3	10.0	13.8	9.2	7.3	23.0	25.0	25.0	12.8	5.5	5.0	10.4	>25	>25					1.7	9.0	0.5	3.8	3.8	2.6			19.5	16.0	1.6
	02(%)	15.0	19.0	16.7	3.5	1.2	14.2	12.5	10.0	11.3	14.5	0.0	15.8	>25	25.0	16.3	16.0	7	6.5	20.5					19.3	20.8	20.8	16.5	16.5	17.5			0.0	0.0	19.0
	Vacuum("Hg)	5.5	2	2	2	2	2	5.5	1.5	1.5	2	1.5	S	5.5	1.5	2	1.5	5.5	9	1.5					1.5	10	2	2	2	2			7	5	5.5
	Temp(C)	19.4		19.8	671	20.3	17.6	18.7	20.8	19.8	20.2	20.1	20.0	23.9	20.4	9.62	17.1	19.6	24.2						18.2	14.8	15.8	19.4	21.9	21.0			18.0	18.0	22.6
Middle (5.5")	TP1 (ppm)	250	120	200	230	220	230	230	220	220	230	230	230	170	210	210	200	210	210	180					190	100	9	200	200	240			790	250	180
Ĩ	CO2(%)	5.2	1.8	4.0	12.7	10.0	6.5	8.3	10.8	7.9	8.3	15.0	18.4	>25	11.6	5.3	5.0	10.5	>25	>25					3.0	1.4	9.0	7.5	7.8	9.9			13.5	12.0	3.7
	02(%)	15.4	19.6	17.0	5.7	9.3	15.5	14.0	12.0	12.7	14.2	0.6	14.8	19.5	20.9	17.0	16.0	11.0	5.0	17.0					18.0	19.5	20.5	12.0	11.5	12.5			5.6	6.3	17.0
	Vacuum(T1g)	5.5	2.0	5.0	2.0	2.0	2.0	7.5	1.5	1.5	1.5	1.5	5.0	1.5	5.5	5.5	1.5	5.5	5.5	1.5					2.0	1.5	1.5	2.0	5.5	5.5			15.0	2.0	5.5
	m) Temp(C)	19.1	18.6	19.5	19.2	18.4	19.5	•	•		٠		•	•	•		٠		٠	•	•		-	٠	٠	•	•	٠	٠	•		٠	٠	٠	•
Shallow (3.07)	TPi I(ppm)	230	140	280	220	220	220	220	220	210	220	230	240	190	210	200	190	220	210	200					200	120	8	200	210	240			мо по	250	180
	CO2(%)	3.6	13	3.5	0.01	8.3	91	9.9	7.3	0.9	7.1	7.3	9.4	21.0	7.4	4.0	43	9.2	220	240					43	1.5	2	7.5	9.8	6.5			moll on	6.9	3.7
	02(%)	17.7	200	17.8	9.0	12.0	17.4	15.9	14.7	15.0	15.7	15.8	17.5	18.0	20.2	18.2	17.1	12.5	7.4	15.5					17.0	19.5	20.3	12.5	9:0	13.3			no flow	10.8	17.4
Monitoring	Polnt	-	2	3	-	2	9	7		6	02	=	12	13	7	15	16	17	18	61	R	21	п	23	74	25	26	n	28	62	ន	31	32	33	ಸ

P.E. Warren AFB Soil Gas Monitoring Data (12/3/94)

	rks							locine point	lochie point			Ĭ,	n Italic	used 1:1				Itoring point			itoring point	Horing point	itoring point	itoring polin		itoring point	Itoring point				Horing point	Horing point	Octepth 6"	Odepth 8"	
	Remarks							shooed monitorine point	skipped monitoring point			1. *: has no probe;	2. TPH values in Italic	are readings used 1:1	dilutor.			skipped monitoring point			skipped monitoring point	skipped monitoring point	shipped monitoring point	skipped monitoring polist		skipped monitoring point	skipped moutoring point				sUpped monitoring point	skipped monitoring point	11C smell Octepth 6"	HC smell Odepth 8"	
	Vacuum("He)	5.5	9.9	2.5	-	3	-			2.5		3	1	2.5	-	9	3		3	3					6.5			3	9	3			5.5	s	
	Temp(C)	12.0	11.5		9.0	12.1	7.0							•			•		٠	•		•	•	٠	•				•	•	-	•	•		-
Deep (8.0.)	TP11(ppm) Temp(C)	29	3	8	98	130	100			120	120	120	110	8	110	8	100		110	120				0	45			40	08	20			2,000	1,000	S
	CO2(%)	23	1.6	2.8	8.0	11.7	33			8.8	4.8	12.8	12.5	15.5	10.7	3.7	3.6		10.0	14.3					1.1			1.2	4.0	1.8			17.0	15.0	
	02(%)	18.6	19.5	18.5	11.5	8.7	17.7			13.5	16.5	7.0	16.0	\$7.	21.2	18.5	18.8		11.5	>25					20.0			17.5	13.5	19.2			0.2	0.0	101
	Vacuum(THg)	2.5	6.5	3	3	3	3.5			2.5	2.5	В	3	2	3	М	3		3	3					3			4	3	3.5			6	•	,
	Temp(C)	7.5		10.3	12.6	12.5	12.1			13.2	13.7	9.2	6.3	12.2	13.5	8.7			13.7	٠					10.6			113	14.0	11.9			10.9	12.6	117
Middle 15.5")	Ti'l (ppm)		0	83	97	130	110			120	011	110	110	100	110	105	100		110	130					9			2	8	90			130	8	ន
~	CO2(%)	2.2	1.0	2.0	7.3	9.5	3.2			7.3	5.0	7.2	10.5	13.7	9.0	3.5	2.7		9.0	13.0					1.2			2.8	7.0	3.6			11.0	6.3	1.3
	02(%)	19.3	20.0	19.2	12.5	11.5	18.0			14.8	16.8	13.5	13.0	222	18.0	10.7	18.7		12.5	22.0	İ				19.8			16.0	12.5	17.0			7.2	13.0	300
	(ppm) Temp(C) Vacuum("11g)	5.0	2.0	4.0	3.0	3.0	3.0			2.5	3.0	3.0	3.0	2.5	3.0	3.0	3.0		3.0	5.0					3.0			3.5	3.0	3.0			17.5	3.0	3.0
	Temp(C)	0	33	35	\$	c	3.5			•	•	•	•			٠	•		•	٠	٠		•	٠	•			•	٠	٠	٠	٠	•		
Shallow (3.0")	TP11(ppm)	8	04	SS	96	8	001			120	100	120	011	001	130	001	001		94	130					3			8	8	20			no flow	100	97
91	O2(%) CO2(%)	1.8	0.1	1.5	5.6	2.8	3.0			5.6	7	14.6	9.0	0.11	63	3.4	1.7		83	10.7					17			2.6	4.5	2.7			no Bow	4.0	1,2
	02(%)	19.5	000	19.8	14.2	19.0	18.7			16.3	18.0	17.5	13.0	20.6	18.5	18.0	18.9		13.4	19.0					19.6			16.5	15.0	183			no flow	16.5	20.0
Monitoring	Polnt	-	7	-	-	2	9	7	*	6	2	=	21	13	Ξ	15	16	17	18	61	8	21	n	23	7	25	26	22	28	62	R	ē	33	æ	7

F.E. Warren AFB Soil Gas Monitoring Data (1/18/95)

$\overline{}$	Т	-	1 -		- I	1	ī	ı	91	~		1	ı	1	1		1	I	1 >		_	1 -	1	Ī	i	-	ı	_		1		ī	1	!	_	Ī
	Remarks	skipped mordioclare point	skinged monitoring point	and the manner and June	skipped monitoring point				skipped monitoring point	shipped monitoring point	shipped monitoring point		1. *: has no probe:	2. TPII values in Italic	are readings used 1:1	dilutor.			skipped movitorine point			skipped monitoring point		skipped monitoring point		skipped monitoring point								HC smell @Jepth 8"	HC smell Odepih 8"	amb T= -3.1C
	CO2(%) TPH(ppm) Temp(C) Vacuum("Hg)						,					7	3.5	7	•	-	9	9		7	-		n		7		3.5	7.5	-	-	3.5	3.5	2	7	9.5	6.5
	Temp(C)				0.7	9	.	76					•			•					•	•	•			•			•	•	•					
Deep (8 0')	TP11(ppm)				51	R S	2 2	2				frozen	001	130	120.	120	901	120		150	100		3		8		જ	20	110	120	110	\$	æ	2,000	1,000	140
	CO2(%)				100	50	200	0.0				frozen	2.6	6.9	10.8	7.3	3.2	3.5		8.8	10.5		1.2		2.9		9.0	0.1	4.8	7.5	8.5	0.4	9.0	16.0	13.5	4.8
	O2(%)				9 97	2	13.6	200				frozen	14.7	14.6	10.7	14.5	17.4	17.2		12.5	10.8		21.4		13.5		43.0	91.5	24.5	50.0	23.8	20.8	20.9	0.0	00	36.0
	Temp(C) Vacuum(Tig)				,		1	-				S	7	5	. 8	4	6.5	9		2	8		3		9		12	11.5	+	3.5	+	7	6.5	12.5	40	8
	Temp(C)				10.2	1			İ			10.0	9.9	4.6	8.4	9.6	7.0	•		10.0	•		7.0		7.2		9.3	8.4	67	10.6	9.6	9.9	7.6	8.5	10.6	11.4
Middle (5.5")	TP11(ppm)				340	52	011					23	130	120	120	120	100	110		150	110		23		8		2	2	110	000	110	92	8	120	200	130
	CO2(%)				77	22	20		Ī			5.3	7.5	6.3	9.0	6.2	2.8	3.3		7.8	9.3		6.0		2.5		0.0	1.0	5.5	73	8.9	0.5	0.5	83	0.9	53
	02(%)				113	9	14.5					15.3	12.6	15.3	12.5	15.5	18.2	17.5		13.5	12.0		20.9		14.5		340	90.0	23.0	30.0	23.2	20.9	20.5	9.5	16.5	37.0
	Triffppm) Temp(C) Vacuum(Tig)				20	3.0	3.0					5.5	3.5	6.5	7.5	3.0	6.5	7.0		5.0	40		3.0		7.0		7.0	7.0	3.5	3.0	3.5	7.0	3.0	19.0	7.0	7.0
	Temp(C)				33	22	25		T			•	•	•	•	•	•	•		•	•	•	•	•	•				•	-	-	•	•	-		•
Shallow (30)	TP11(ppm)				3.40	55	911					130	120	110	22	2	8	901		051	130		47		98		20	8	8	130	100	30	3	120.0	991	130
	O2(%) CO2(%)				5.6	22	43					2	4.5	5.3	7.5	7	2.4	2.7		9.9	7.8		8.0		1.7		=	-	\$	20	4.9	ě	8.0	55	4.0	43
_	(X) (X)				14.0	18.5	15.8					165	15.5	16.3	14.2	17.4	18.7	18.3		14.6	13.5		50.9		17.2		24.5	98.0	21.5	23.7	20.7	902	20.5	12.5	18.5	35.8
Monttoring	Point	-	7	C	+	2	9	7	-		,	2	=	21	2	7	15	91	12	92	6	2	21	n	ล	24	ß	38	n	22	82	8	5	g	a	Ä

APPENDIX 14

COMPARISON OF SOIL GAS MEASUREMENTS USING DIFFERENT FIELD SAMPLING METHODS

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Monitoring Point	[O ₂], %	[CO ₂], %	[TPH], ppmv	Sampling Method		
26S	19.2	1.3	51	Tedlar bag		
	19.2	1.3	53	Direct connect		
27S	11.5	6.0	74	Tedlar bag		
	11.5	6.0	73	Direct connect		
28S	4.3	12.2	-	Tedlar bag		
	4.5	12.2	-	Direct connect		

Paired t-Test X 1 : Direct Connect [O2], % Y 1 : Tedlar bag [O2], %

DF:	Mean X - Y:	Paired t value:	Prob. (2-tail):
2	.06667	1	.4226

Paired t-Test X 2 : Direct connect [CO2], % Y 2 : Tedlar bag [CO2], %

DF:	Mean X - Y:	Paired t value:	Prob. (2-tail):
2	0	•	•

Paired t-Test X $_3$: Direct connect [TPH], ppm Y $_3$: Tedlar bag [TPH]...

DF:	Mean X - Y:	Paired t value:	Prob. (2-tail):
1	.5	.33333	.7952

Note: 1 case deleted with missing values.

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APPENDIX 15

VERIFICATION OF FIELD O_2 AND CO_2 MEASUREMENTS USING GC ANALYSIS

Comparison of Field Measured O2/CO2 versus Laboratory Analyzed Canister Sample

To verify the accuracy of field instrument, selected field readings are compared to the analytical results of canister samples collected from the same monitoring points at the same time, as listed in Table 1. A two way paired T-test is performed and the results are included in Appendix A. The t value and probability for O_2 observations are 0.49198 and 0.6378, respectively. The t value and probability for CO_2 observations are -1.8201 and 0.1116, respectively. The results show that the field measured data for O_2 are more consistent with the canister results than those for CO_2 . Overall, the comparison shows that the field O_2 / CO_2 meter is adequately reliable. The field measured data versus laboratory determined data are also plotted as shown in Figure 1 and Figure 2.

Table 1 Comparison of Field Measured and Laboratory Determined O2/CO2

SAMPLING POINT	SAMPLING TIME	LAB-O2(%)	FIELD-O2(%)	LAB-CO2(%)	FIELD-CO2(%)
MP 19 M	8/29/94	11.7	11.8	23.53	≈25
MP 14 D	8/29/94	22.9	23.0	11.96	11.5
MP 18 M	8/29/94	5.7	2.3	22.13	=25
MP 13 D	8/29/94	21.2	23.6	27.14	=27
MP 13 S	8/29/94	11.4	10.8	24.67	=25
MP26D	7/7/94	19.6	19.5	0.00	0.2
Ambient Air	7/7/94	19.5	21	0.00	0.03
M-32d	7/10/94	2.7	0.001	15.44	16.9

Note: LAB-O2 and LAB-CO2 are canister samples analyzed by GC at UWRL;

FIELD-O2 and FIELD-CO2 are readings using GasTech O2 /CO2 meter Model32520x

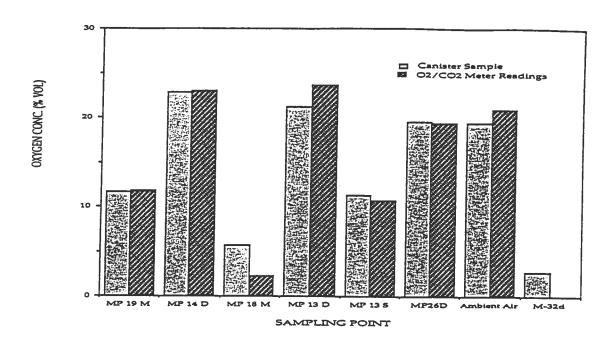


Figure 1 Plot of Field Measured and Laboratory Determined O2

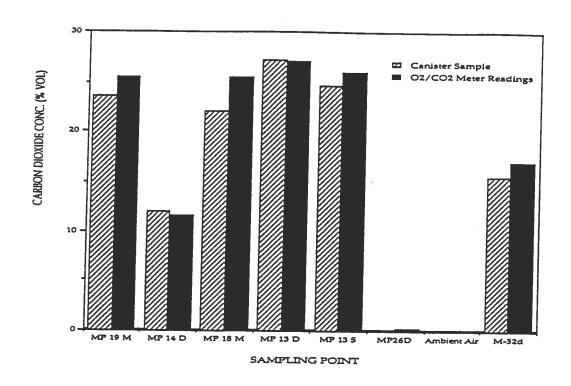


Figure 2 Plot of Field Measured and Laboratory Determined CO2

Two-Tail P. d t-test Results for Lab O2/CO2 v eld O2/CO2

	Paired t-Test X1:	Lab O2 Y1: Field O	2
DF:	Mean X - Y:	Paired t value:	Prob. (2-tail):
7	.33737	.49198	.6378

F:	Mean X - Y:	Paired t value:	Prob. (2-tail):
7	72	-1.8201	.1116

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APPENDIX 16 MONTHLY TEMPERATURE AND AIR FLOW DATA

F E Warren AFB - Temperature and Flow Data

12/17/93 2:30 PM

Air Injection Points

1.5

1.4

1.5

Temp

<u>O</u>

Number

5 5 5 5 5

Ambient: (C) 1.0

Date: Time:

				Flow	(ft3/ min)	pipe broken	pipe broken	15.3	15.3	15.8	5.9	8.7	11.3	15.3	1.3	6.8	9.4	13.7	pipe broken		pipe broken	_	<u> </u>	<u> </u>	Į
Points				Velocity	(ft/min)	pipe broken	pipe broken	200	700	725	270	400	520	700	09	310	430	069	pipe broken	230	pipe broken	pipe broken	pipe broken	pipe broken	
Flow Monitoring Points	12/17/93	2:00 PM	(C) 1.0		Temp (C)	pipe broken	pipe broken	2	2.5	1.5	1.1	0.7	0.3	1.7	3.9	3	4	0	pipe broken	-	pipe broken	pipe broken	pipe broken	pipe broken	
Flow N	Date:	Time:	Ambient: (C) 1.0	Air Flow	Point	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	
ed Region	12/17/93	2:00 PM	1.0	Temp (C)	7.2	•	4.5	8.8	4.1	5.0	7.9	3.8	*	•	8.6	8.0	5.3	3.1	6.6	8.2	5.2	10.1	7.5	11.7	
Plastic Covered Region	Date:	Time:	Ambient: (C) 1.0	T/ C Number	t1	t2	t3	t4	t5	t6	17	t8	6 1	t10	t11	t12	t13	t14	t15	t16	t17	t18	t19	t20	

n/a

n/a

tc10 tc11

tc9

tc6

tc7

*thermal couples 12, 19 and 110 no longer functioning

F E Warren AFB - Temperature and Flow Data

1/15/94 2:30 PM

Air Injection Points

Temp

Ambient: (C) 1.0

Date: Time: <u>()</u>

Number

tc1

tc3

9.3

6.5

45 to 155 to 25 to

8.4

Plastic-Covered Region	red Region	Flow N	Flow Monitoring Points	Points	
Date:	1/15/94	Date:	1/15/94		
Time:	2:00 PM	Time:	2:30 PM		
Ambient: (C) 8.9	8.9	Ambient: (C) 1.0	(C) 1.0		
T/ C Number	Temp (C)	Air Flow		Velocity	Flow
t1	7.6	Point	Temp (C)	(ft/min)	(ft3/ min)
12	•	F1	9.6	35	0.8
t3	4.4	F2	9.2	200	4.4
t4	8.7	F3	9.2	430	9.4
t5	4.8	F4	9.3	650	14.2
t6	5.2	F5	8.7	850	18.5
t7	8.1	F6	10.1	160	3.5
t8	5.0	F7	6	270	5.9
t9	•	F8	9.2	400	8.7
t10	¥	F9	9.2	570	12.4
t11	9.6	F10	8.5	8	2.0
t12	8.9	F11	8.3	230	5.0
t13	6.0	F12	8.9	320	7.0
t14	4.7	F13	9.5	009	13.1
t15	9.6	F14	9.1	180	3.9
t16	7.0	F15	9.1	200	4.4
t17	5.8	F16	8.9	470	10.3
t18	10.6	F17	8.5	480	10.5
t19	6.2	F18	9.1	089	14.8
t20	12.1	F19	9.6	200	15.3
471					

4.9

6.2

tc10

tc9

4.8

*thermo couples 12, 19 and 110 no longer functioning

F E Warren AFB - Temperature and Flow Data

2/13/94 9:15 AM

6.5 3.7 5.5 3.8 3.6 0.8 1.5 1.6

> tc5 tc6

tc 45

tc2

tc1

Temp

<u>O</u>

Number

Ambient: (C) 0.2

Date: Time:

Air Injection Points

					-	1	·	ī	T	1	T .	T	·	T			_	<u> </u>			<u> </u>		T	T]
				Flow	(ft3/min)	1.4	5.5	9.6	13.1		4.1	5.9	8.9	13.5	1.5	4.8	7.0	13.1	4.4	4.1	8.3	7.6	13.1	14.0	
Points				Velocity	(ft/min)	65	250	440	009		190	270	410	620	70	220	320	009	200	190	380	350	009	640	
Flow Monitoring Points	2/13/94	8:30 AM	(C) -0.5		Temp (C)	-0.2	0.7	3.1	3.2		2.7	2.4	2.6	2.6	Э	3.8	3	4.5	14.4	15.1	8.6	16.3	15.3	15.7	
Flow N	Date:	Time:	Ambient: (C) -0.5	Air Flow	Point	F1	F2	F3	F4	FS	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	
					 -					·	_														_
ed Region	2/12/94	9:00 AM	-0.1	Temp (C)	5.2	*	1.9	6.1	2.0	2.9	5.4	2.0	*	*	6.4	5.2	2.7	0.7	6.2	3.7	1.8	0.9	3.0	7.3	2.0
Plastic-Covered Region	Date:	Time:	Ambient: (C) -0.1	T/ C Number	t1	t2	t3	t4	t5	t6	t7	t8	61	t10	t11	t12	t13	t14	t15	t16	t17	t18	t19	120	121

0.4

tc10 tc11

tc9

tc7

*thermocouples 12, 19 and 110 no longer functioning

F E Warren AFB - Temperature and Flow Data

2/28/94 2:20 PM

P	lastic-Cov	Plastic-Covered Region	-	Flow M	Flow Monitoring Points	Points		Air Injection Points	n Points
Date:	2/25/94	Date:	2/28/94	Date:	2/25/94			Date:	2/28/9
Time:	2:18 PM	Time:	1:50 PM	Time:	1:30 PM			Time:	2:20 PN
Ambient: (C) -11.9	-11.9	Ambient: (C) 0.2	3) 0.2	Ambient: (C) -8.3	(C) -8.3			Ambient: (C) -0.8	2) -0.8
T/ C Number	Temp (C)	T/ C Number	Temp (C)	Air Flow		Velocity	Flow	T/C	Temp
11	4.7	t1	5.2	Point	Temp (C) (ft/min)	(ft/min)	(ft3/min)	Number	0)
t2	*	t2	*	FI	3.2	09	1.3	tc1	9.0
t3	1.4	t3	1.6	F2	1.2	340	7.4	tc2	-2.4
t4	6.3	t4	6.4	F3	1.6	NR		tc3	-2.7
t5	1.1	t5	1.5	F4	4.1	NR		tc4	-2.6
t6	2.3	t6	2.5	F2	7.4	NR		tc5	-2.2
t7	5.4	t7	5.4	F6	2.7	NR		tc6	-2.3
t8	1.5	t8	1.8	F7	0.2	NR		tc7	-2.9
f9	*	t9	•	F8	0.7	NR	,	tc8	-2.5
t10	*	t10	*	P.	5.1	NR		tc9	-2.6
t11	6.7	t11	9.9	F10	3.3	110	2.4	tc10	-2.5
t12	5.1	t12	5.2	F11	3.2	380	8.3	tc11	-2.4
t13	2.0	t13	2.0	F12	4.8	200	10.9		
t14	0:0	t14	0:0	F13	9.7	700	15.3		
t15	6.1	t15	6.1	F14	8.1	009	13.1		
t16	3.3	t16	3.1	F15	4	260	5.7		
t17	1.5	t17	1.4	F16	3.7	920	14.2		
t18	6.5	t18	6.3	F17	2.6	009	13.1		
t19	1.3	t19	2.5	F18	3.3	092	16.6		
t20	7.3	t20	7.5	F19	4.6	800	17.5		
t21	2.1	t21	1.7						

NR=off scale due to meter malfunctioning. *thermo-couples 12, 19 and 110 no longer functioning;

FE Warren AFB - Temperature and Flow Data

3/26/94 2:30 PM

Ambient: (C) - 2.8

Date: Time: Temp (C)

Number

tc.1

Air Injection Points

-1.8

-0.4

tc4 tc5 tc6 tc7 tc8

tc3

0.7

1.4

Plastic-Covered Region	red Region	Flow M	Flow Monitoring Points	Points	
Date:	3/26/94	Date:	3/26/94		
Time:	2:05 PM	Time:	1:30 PM		
Ambient: (C) -1.5	-1.5	Ambient:	Ambient: (C) -0.5 to 3.5	3.5	
T/ C Number	Temp (C)	Air Flow		Velocity	Flow
t1	6.0	Point	Temp (C)	(ft/min)	(ft3/min)
12	*	FI	1.8	80	1.7
£3	5.1	F2	:	*	*
t4	6.3	F3	*	*	*
t5	5.1	F4		*	*
t6	5.1	F5	:	:	*
t7	6.0	F6	5.5	230	5.0
t8	5.0	F7	4.2	320	7.0
f9	•	F8	5.2	450	9.8
t10	•	F9	9	009	13.1
t11	6.4	F10	3.7	80	1.7
t12	6.0	F11	5.9	260	5.7
t13	6.2	F12	4.5	380	8.3
t14	6.7	F13	4.5	650	14.2
t15	5.6	F14	-1.4	250	5.5
t16	9.9	F15	-2.7	250	5.5
t17	6.8	F16	-1.8	250	5.5
t18	8.5	F17	-1.5	270	5.9
t19	6.2	F18	-2.5	620	13.5
t20	8.2	F19	-2.6	620	13.5
t21	6.3				

-0.2

1.4

tc10

tc9

*thermocouples 12, 19 and 110 no longer functioning **meter malfunctioning at freezing temp.

F E Warren AFB - Temperature and Flow Data

4/23/94 1:30 PM

Ambient: (C) 25.5

Date: Time: Temp (C)

Number

Air Injection Points

31.3

8.3

33.7 30.9 33.7 19.7 19.7 25.6 25.6 25.6 25.6 25.6 25.6

tc3 tc4 tc5 tc7 tc7

tc1

Plastic-Cover	Plastic-Covered Region	Flow M	Flow Monitoring Points	Points		
	4/23/94	Date:	4/23/94			
Time:	2:55 PM	Time:	1:00 PM			
Ambient: (C) 25	25	Ambient: (C) 25.5	(C) 25.5			
T/ C Number	Temp (C)	Air Flow		Velocity	Flow	
	6.2	Point	Temp (C)	(ft/min)	(ft3/min)	
	*	F1	32.9	30	0.7	
	7.2	F2	34.8	160	3.5	
	6.2	F3	36.6	300	6.5	
	7.2	F4	31	490	10.7	
	7.1	F5	27.8	750	16.4	
	6.4	F6	31.1	120	2.6	
	7.8	F7	30.3	210	4.6	
	٠	F8	31.5	320	7.0	
	•	F9	32.7	470	10.3	
	6.3	F10	27.1	09	1.3	8
	7.2	F11	33.3	180	3.9	20
	8.5	F12	29.4	260	5.7	
	11.5	F13	32.3	580	12.7	
	7.0	F14	34.8	170	3.7	
	7.1	F15	31.1	160	3.5	
	6.6	F16	37.9	170	3.7	
	8.2	F17	35.3	190	4.1	
	8.6	F18	34.1	490	10.7	
	8.1	F19	34.7	200	10.9	
	11.2					

tc10

tc9

*thermocouples t2, 19 and t10 no longer functioning

FE Warren AFB - Temperature and Flow Data; 6/3/94

6/3/94

Plastic-Covered Region	red Region	Flow N	Flow Monitoring Points	Points		AirIn	iection	Air Injection Points
Date:	6/3/94	Date:	6/3/94			Date:		6/3/94
Time:	1:15 PM	Time:				Time:		
Ambient: (C)	(2) 24.9	Ambient: (C)	(C)			Ambie	Ambient: (C)	
T/C Number	Temp (C)	Air Flow		Velocity	Flow	T/C		Temp
t1	10.3	Point	Temp (C)	(ft/min)	(ft3/min)	Number		(C)
1.5	*	F1	32.6	09	1.3	tc1		29.2
13	16.2	F2	42	240	5.2	tc2		14.3
14	9.8	F3	37.6	200	15.3	tc3		32.8
t5	17.3	F4	38.8	720	15.7	tc4		32.5
t6	15.4	F5	36.7	092	16.6	tc5		35.6
t7	11.7	F6	30.8	150	3.3	tc6	-	23.1
t8	16.5	F7	34.7	220	4.8	tc7		27.6
61	•	F8	35.2	330	7.2	tc8		27.9
t10	•	F9	40.5	460	10.0	tc9		33.5
t11	a 11.5	F10	32.2	99	1.4	tc10		31.6
t12	13.2	F11	39.1	200	4.4	tc11		26.7
t13	16.5	F12	34	300	6.5			
t14	20.4	F13	37.1	290	12.9			
115	10.8	F14	43	200	4.4			
t16	14.5	F15	31.3	200	4.4	,		
t17	17.3	F16	43.1	200	4.4			
t18	13.2	F17	36.9	230	5.0			
t19	17.7	F18	38.6	460	10.0			
t20	13.7	F19	36.2	200	10.9			
121	19.7							

**meter malfunctioning at freezing temp. *thermocouples 12, 19 and 110 no longer functioning

F E Warren A/F Base - Temperature and Flow Data

7/6/94

Air Injection Points

8:07 to 9:36

Date: Time:

Ambient: (°C) 21.7 @ 8:11 T/ C

				Flow	(ft3/min)	1.3	5.5	15.3	17.5	21.8	3.3	4.9	7.9	10.7	1:1	4.6	8.7	14.2	2.7	5.7	2.7	3.5	10.9	13.1		
oints				Vel	(fVmin)	09	250	700	800	000,1	150	225	360	490	50	210	400	650	125	260	125	160	500	900		
Flow Monitoring Points	7/6/94	7:58 to 9:38	Ambient: (°C) 21.7 @ 8:11		Temp (°C)	30.8	32.6	33.2	34.6	38.2	34.8	31.4	28.9	30.5	27.5	27.8	28.3	30.4	26	26.3	28.8	23.5	23.2	23.5		
Flow	Date:	Time:	Ambient: (%	Air Flow	Point	FI	돤	田	F4	F5	F6	Ħ	F8	F9	F10	FII	F12	F13	F14	F15	F16	F17	F18	F19		
																										1
Region	7/6/94	9:50	24.9	Temp (°C)	13.5	*	21.6	19.6	19.4	14.1	#	*	*	#	14.3	18.6	23.4	26.6	*	18.9	22.6	#	21.9	17.5	*	to longe franch
Plastic-Covered Reglon	Date:	Time:	Ambient: (°C)	TC Number	ti	12	13	14	15	16	1,7	81	61	t10	111	112	t13	t14	115	t16	t17	118	t19	120	(21	* the man of the solution of the

Temp (°C)
24.2
19.4
24.8
25.6
30.4
25.1
30.2
24.9
31.8

101

F E Warren AFB - Temperature and Flow Data

*thermocouples t2, t9 and t10 no longer functioning; **Air injection shut off for pure oxyegn & pulse injection;

***Flow and temperature not measured due to being in "off" phase of pulsed injection.

no longer function

Temp

<u>(</u>

Number

Ambient: (C) 33

33.4

tc2 tc3

tc1

35.6

*

33

**

**

tc8 tc9

* :

*

tc6

tc5

tc4

tc7

20.5

tc10 tc11

11:30 AM 8/27/94

Time: Date:

Air Injection Points

F E Warren AFB - Temperature and Flow Data

Plastic-Covered Region	red Region	Flow M	Flow Monitoring Points	Points			Air Injection Points	on Points
Date:	9/23/94	Date:	9/23/94				Date:	9/23/94
Time:	3:30 PM	Time:	8:30 AM				Time:	3:00 PM
Ambient: (C) 24.5	24.5	Ambient: (C) 15.5	(C) 15.5				Ambient: (C) 24.5	2) 24.5
T/ C Number	Temp (C)	Air Flow		Velocity	Flow		T/C	Temp
t1	16.7	Point	Temp (C)	(ft/min)	(ft3/min)	55	Number	(C)
12	•	F1	30.5	280	6.1	-	tc1	not reading
13	22.0	F2		:	**		tc2	26
14	19.7	F3	•	:	:		tc3	29.5
t5	21.0	F4	**	:	•		tc4	27.3
t6	22.2	F5	**	:	**		tc5	:
t7	18.3	F6	3 1:	**	312		tc6	:
t8	19.6	F7	702	31:	**		tc7	:
t9	•	F8	*	:	*		tc8	**
t10	•	F9	*	:	:		tc9	•
t11	18.7	F10	:	:	:	8	tc10	•
t12	22.7	F11	*	:	•		tc11	28.4
t13	23.5	F12	*	:	:			
t14	21.5	F13	:	•	•			
t15	18.1	F14	18.2	210	4.6			
t16	21.8	F15	20	180	3.9			
t17	20.8	F16	20.9	480	10.5			
t18	21.3	F17	18.5	290	12.9			
t19	23.4	F18	18.7	725	15.8			
t20	19.7	F19	18.4	750	16.4			
t21	19.1							

*thermocouples 12, 19 and 110 no longer functioning **points not sampled due to injection points turned off;

Flow and temperature not measured due to being in "off" phase of pulsed injection

531

F E Warren AFB - Temperature and Flow Data

10/16/94

Temp (C)

Ambient: (C) T/ C Number

Date: Time: 16.5

16.7

2 2 4

18.9

Plastic Covered Region

10/16/94

Air Injection Points

Temp

Ambient: (C)

Date: Time: 0

Number

T/C

18.4

8.5

tc2 tc3 tc4

tc1

19

				Ø	(cub. ft/ min)	6.0	3.9	9.4	12.0	18.5	3.7	5.9	9.2	12.0	1.5	5.7	6.5	13.5	4.4	5.0	11.8	12.0	16.4	17.5
Points				Vel	(ft/min)	40	180	430	550	850	170	270	420	550	7.0	260	300	620	200	230	540	550	750	008
Flow Monitoring Points	10/16/94		(C)		Temp (C)	19.5	21.6	27.2	26.9	23.6	24.8	27.1	26.1	21.6	21.3	24.8	23	22	24.2	20.4	18.9	22	23	22
Flow M	Date:	Time:	Ambient: (C)	Air Flow	Point	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19
,											_													

21.5

20.7

15

tc6

tc7

tc5

5 5 65

16.7

14.8

23.7

tc10 tc11

> 20.0 18.9 17.6

18.4

t10

19.0 17.6 22.0 19.3 19.6 15.8

17.7

t15 t16 t17 t18

t13

t11 t12 **£19**

t20 t21

*thermal couples 19 and 110 no longer functioning

5 5 7 8 5

19.0

APPENDIX 17 RESPIRATION TEST RAW DATA

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In situ Respiration Test Data - FE Warren ... B (4-93)

Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
1-s	4/19/93		13.0	5.7	64	18.0	7.9	
1-s	4/20/93		10.7	9.5	350	6.0	7.8	
1-s	4/20/93		11.0	8.8	390	7.0		
1-s	4/20/93		12.9	7.8	480	5.0		
1-s	4/21/93		13.0	3.0	390	6.0	5.1	
1			12.7	6.5	390	5.0	J.1	
1-s	4/21/93			7.8	420	5.5	7.4	!
1-s	4/22/93	4.00	11.6	1 1	47	6.0	7.9	
1-s	4/23/93	4:08	12.9	7.4		1 1		
1-s	4/24/93	9:06	13.0	7.0	380	6.0	8.7	
1-m	4/19/93		8.0	8.4	70	19.0	7.2	
1-m	4/20/93		7.9	-	380	6.5	7.1	
1-m	4/20/93		8.0	12.8	420	6.5		;
1-m	4/20/93		10.9	9.5	490	5.5		1
1-m	4/21/93		11.9	7.5	420	6.5		
1-m	4/21/93		11.5	7.5	420	6.5		
1-m	4/22/93	-	9.1	9.5	440	6.0	7.4	
1-m	4/23/93	4:08	10.1	9.5	500	6.5	7.2	
1-m	4/24/93	9:06	10.5	8.7	360	6.5	7.4	
1-d	4/19/93		5.5	9.5	72	19.0	7.1	
1-d	4/20/93		5.3	15.0	390	6.5	7.3	
1-d	4/23/93	4:08	7.6	11.0	550	7.0	7.0	
1-d	4/24/93	9:06	8.2	10.2	380	7.0	7.2	
	. (10 (00 l				(1	70	8.0	
2-s	4/19/93	-	16.6	5.6	64	7.0 5.5	7.8	
2-s	4/20/93		17.0	5.0	260		7.0	
2-s .	4/20/93		17.0	5.5	320	5.5 5.0		
2-s	4/20/93		18.0	4.3	380	4.5	6.0	
2-s	4/21/93		18.0	3.5	300 270	5.0	0.0	ļ
2-s	4/21/93	-	17.5	3.5	250	5.0	8.0	
2-s	4/22/93	4.05	17.8	3.7	390	6.0	7.8	
2-s	4/23/93	4:05	16.8 17.9	4.4 3.7	270	7.5	8.9	
2-s	4/24/93	9:04	15.5	5.1	73	8.0	7.8	
2-m	4/19/93	- 1	15.5	6.7	300	6.0	7.7	
2-m 2-m	4/20/93 4/20/93		15.5	7.0	360	6.0	***	
2-m	4/20/93		16.9	5.3	420	4.5		
2-m 2-m	4/21/93		17.0	4.5	340	5.5	6.0	
2-m	4/21/93	1	16.0	4.8	340	5.5	0.0	
2-m	4/22/93		15.2	5.8	340	6.0	8.0	
2-m	4/23/93	4:05	14.7	6.0	440	7.0	7.5	
2-m	4/24/93	9:04	15.5	5.5	340	7.5	7.7	
2-d	4/19/93	7.5-2	14.3	5.9	76	8.0	8.1	
2-d	4/20/93	.	14.5	7.6	330	6.5	8.0	_
2-d	4/20/93	1	14.5	7.8	370	6.5		
2-d	4/20/93		16.1	6.0	440	5.0		
2-d 2-d	4/21/93	-	16.0	5.2	360	6.0	5.9	
2-d	4/21/93		15.0	5.5	360	5.5		
2-d	4/22/93		13.8	6.7	360	7.0	8.1	
2-d	4/23/93	4:05	13.0	6.9	470	7.0	7.6	
2-d 2-d		9:04	13.5	6.5	370	7.5	8.2	
	4/24/93	7:04	13.3	0.5	3/0	1.5	0.4	

In situ Respiration Test Data - FE Warren ..- B (4-93)

C 11					TDII	D	-	T
Sampling		T:	00 (01)	COC (0/)	TPH	Pump Press	Temp	Comments
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
3-s	4/19/93		16.1	4.3	63	7.5	8.7	
3-s	4/20/93		16.0	5.8	270	6.0	8.1	
3-s	4/20/93		16.0	6.0	330	6.5		
3-s	4/20/93		17.1	4.8	400	5.0		
3-s	4/21/93		17.6	3.8	220	5.0	7.6	
3-s	4/21/93		16.0	3.8	300	5.0		
3-s	4/22/93		16.0	5.0	310	6.5	8.3	
3-s	4/23/93	4:00	18.0	4.2	390	5.0	8.6	
3-s	4/24/93	9:00	18.0	4.0	280	6.5	8.3	
3-m	4/19/93		15.8	4.5	66	9.0	8.4	
3-m	4/20/93		15.8	6.2	280	6.5	8.5	
3-m	4/20/93		15.5	6.5	340	6.5		
3-m	4/20/93	,	16.9	5.1	410	5.5		
3-m	4/21/93		17.2	4.2	340	5.5	7.4	
3-m	4/21/93		16.1	4.5	316	5.5		
3-m	4/22/93		15.2	5.5	330	6.0	8.5	
3-m	4/23/93	4:00	13.9	5.4	440	6.5	8.2	8
3-m	4/24/93	9:00	16.5	5.0	320	6.0	8.7	
3-d	4/19/93	7.00	15.0	5.2	70	9.0	8.9	
3-d	4/20/93	100	15.0	7.0	310	8.5	8.5	
3-d	4/20/93		15.0	7.2	360	8.0		
3-d	4/20/93		16.1	5.9	430	55		
1 1				3.5	360	6.0	7.9	
3-d	4/21/93		17.6	4.9	320	6.0		
3-d	4/21/93		16.0		350	7.0	9.0	
3-d	4/22/93	4.00	14.8	6.0		7.0	8.4	
3-d	4/23/93	4:00	14.8	5.9	4.50	8.0	8.9	
3-d	4/24/93	9:00	15.5	5.7	340	0.0	0.7	ł
	1 100 100		140	4.5		65	8.1	
4-s	4/19/93		14.0	4.5	64	6.5		
4-5	4/20/93		14.5	6.0	270	5.0	4.9	
4-s	4/20/93		14.0	6.2	340	5.0		
4-s	4/20/93	ļ	16.5	4.5	400	5.5	7 0	
4-s	4/21/93	i	16.2	4.0	320	5.0	7.2	
4-5	4/21/93		15.0	4.3	30	5.0	• •	
4-s	4/22/93		13.0	5.2	320	5.0	9.1	
4-s	4/23/93	3:50	12.2	5.6	460	6.0	8.4	
4-5	4/24/93	8:52	12.0	5.3	300	5.5	9.4	
4-m	4/19/93		12.0	13.0	70	1.0	10.2	
4-m	4/20/93		12.0	7.7	310	8.5	9.5	
4-m	4/20/93		11.7	8.0	370	8.5		
4-m	4/20/93		14.5	6.0	440	9.0		
4-m	4/21/93		14.5	5.0	370	8.0	8.8	
4-m	4/21/93		12.9	5.9	360	8.0		
4-m	4/22/93		10.5	7.0	370	8.5	10.0	
4-m	4/23/93	3:50	9.7	7.4	480	8.5	9.7	
4-m	4/24/93	8:52	10.0	7.1	360	10.0	102.0	

In situ Respiration Test Data - FE Warrer 1FB (4-93)

1:					TPH	Pump Pre	Temp	T T
Sampling	.	T:	02 (%)	CO2 (%)		(in Hg)	(C)	Comments
Point	Date	Time	O2 (%)		(ppm)	8.5	9.7	Conditions
4-d	4/19/93		9.0	8.3	76	ľ		
4-d	4/20/93		18.0	3.5	340	7.0	8.6	İ
4-d	4/20/93		9.0	10.5	400	7.0		
4-d	4/20/93		12.8	7.5	480	8.0		i
4-d	4/21/93		12.9	6.2	460	7.0	8.1	
4-d	4/21/93		11.2	7.6	380	6.5		
4-d	4/22/93		8.3	8.9	400	7.5	9.0	
4-d	4/23/93	3:50	8.0	9.1	520	7.5	8.7	
4-d	4/24/93	8:52	8.0	8.8	380	8.0	8.7	
5-s	4/19/93		11.0	9.0	74	20.0	8.2	
5-s	4/20/93		15.2	8.0	330	5.5	7.3	8
5-s	4/20/93		16.2	7.9	360	. 6.0		8
5-s	4/20/93		17.5	5.5	420	5.0		
5-s	4/21/93		14.5	6.0	390	5.5	7.4	
5-s	4/21/93		12.0	6.7	400	4.5		
5-s	4/22/93		14.0	7.0	400	5.0	7.7	
5-s	4/23/93	4:17	12.5	7.8	490	5.5	8.3	
5-s	4/24/93	9:11	16.1	6.0	320	6.0	9.2	
5-m	4/19/93	7.11	17.8	3.0	<i>7</i> 5	19.5	7.8	
	4/20/93		7.8	15.0	390	6.0	8.0	
5-m		}	8.0	15.5	440	7.0	0.0	
5-m	4/20/93			11.0	500	6.0		İ
5-m	4/20/93		11.1	1		7.0	7.9	
5-m	4/21/93		11.0	9.0	440	1 1	1.7	
5-m	4/21/93		10.9	9.0	420	5.0	7.9	
5-m	4/22/93		7.5	12.0	470	5.5		
5-m	4/23/93	4:17	7.2	12.4	540	6.5	7.9	1
5-m	4/24/93	9:11	8.0	11.5	400	6.0	8.3	
5-d	4/19/93		4.5	12.0	<i>7</i> 5	19.2	9.0	
5-d	4/20/93		4.0	19.0	400	8.0	8.5	
5-d	4/24/93	9:11	4.3	14.8	550	7.0	8.7	
6-s	4/19/93		16.0	4.5	42	19.0	8.5	
6-s	4/20/93		16.0	6.0	280	5.5	8.6	
6-s	4/20/93		16.0	6.1	340	5.0		
6-s	4/20/93		17.0	4.8	410	5.0		
6-s	4/21/93		17.1	3.8	300	55.0	89.0	
6-s	4/21/93		16.7	4.9	320	5.5		
6-5	4/22/93		15.5	5.0	360	4.0	8.1	
6-s	4/23/93	4:20	15.0	5.2	420	6.5	8.4 9.2	
6-s	4/24/93 4/19/93	9:12	15.0 16.0	5.0 4.5	300 46	6.5 19.0	9.6	
6-m 6-m	4/19/93		15.8	6.2	300	9.0	9.7	
6-m	4/20/93		15.5	6.4	350	9.0		
6-m	4/20/93		16.0	5.0	410	9.0		
6-m	4/21/93		17.0	10.0	320	9.0	9.4	
6-m	4/21/93		16.0	4.5	270	8.0	0.1	
6-m	4/22/93		14.5	5.8	380	8.0	9.6 9.4	
6-m	4/23/93	4:20	13.9	5.8	440	9.5	9.4	
6-m	4/24/93	9:12	14.0	5.7	320	9.5	7./	

In situ Respiration Test Data - FE Warre

:B (4-	93)
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			n situ Hesi	511 421011			-B (4-93)	,
Sampling					TPH	Pump Press	Temp	Carrier .
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
6-d	4/19/93	!	15.2	4.6	47	19.0	8.8	
6-d	4/20/93		15.0	6.5	310	7.0	8.7	
6-d	4/20/93	}	15.1	6.5	360	6.0		
6-d	4/20/93		16.5	5.1	420	6.5		
6-d	4/21/93		17.0	4.1	330	6.0	8.8	
6-d	4/21/93		15.9	4.5	260	5.5		
6-d	4/22/93		14.1	6.0	380	5.5	9.0	
6-d	4/23/93	4:20	13.1	6.2	450	7.0	8.8	†
6-d	4/24/93	9:12	13.0	6.0	330	7.5	9.0	
7-s	4/19/93		19.0	2.6	44	19.7	8.9	
7-s	4/20/93		18.9	3.5	190	10.0		
7-s	4/20/93		18.0	3.5	240	10.0		}
7-s	4/20/93		19.6	2.8	320	8.5		
7-s	4/21/93		19.5	2.4	200	9.0		
7-s	4/21/93		19.1	1.3	180	9.0		
7-s	4/22/93		18.8	3.0	250	9.5		
7-s	4/23/93	4:25	19.2	2.8	300	10.0		
7-s	4/24/93	9:15	18.8	2.7	190	11.0		
7-m	4/19/93		19.0	2.5	44	19.7		
7-m	4/20/93		19.8	3.5	200	6.0	8.4	
7-m	4/20/93		19.0	3.5	240	6.0		
7-m	4/20/93		19.5	2.7	20	5.0		
7-m	4/21/93		19.0	2.5	210	5.0	8.8	
7-m	4/21/93		19.0	2.5	160	5.0		
7-m	4/22/93		18.4	3.2	270	5.0	8.9	
7-m	4/23/93	4:25	18.9	2.8	300	7.0	8.7	
7-m	4/24/93	9:15	18.5	3.0	200	7.0	9.0	
7-d	4/19/93	7.10	19.0	2.4	45	20.0		
7-d	4/20/93		18.8	3.3	200	7.0		
7-d	4/20/93	j	19.0	3.3	240	6.5		¥8
7-d	4/20/93	}	19.2	2.8	320	5.5		
7-d	4/21/93		19.1	2.5	210	6.0		
7-d	4/21/93	ļ	18.9	2.5	140	6.0		
7-d 7-d	4/22/93		18.2	3.2	270	6.0		
7-d 7-d	4/23/93	4:25	18.2	3.2	320	7.5		
7-d 7-d	4/24/93	9:15	18.0	3.0	200	7.0		
/-a	4/ 44/ 73	3:12	10.0	3.0	200	7.0		<u> </u>
Q a 1	4/10/02		21.0	0.2	0	19.0		<u> </u>
8-s	4/19/93		21.0			5.0		-
8-s	4/20/93		18.2	4.0	230	6.5		
8-s	4/20/93		18.5	4.1	260			
8-s	4/20/93		19.0	3.5	350	4.0		
8-s	4/21/93		19.1	2.8	220	7.0		
8-s	4/21/93		19.0	2.7	190	5.0		
8-s	4/22/93		18.5	3.4	250	4.5		
8-s	4/23/93	4:33	19.0	3.2	300	5.5		
8-s	4/24/93	9:16	19.0	3.0	200	5.0		l

In situ Respiration Test Data - FE Warrer ⊂B (4-93) TPH Sampling Pump Press Temp CO2 (%) Comments Point Date Time O2 (%) (ppm) (in Hg) (C) 2.6 4/19/93 19.0 46 19.0 8.6 8-m 4.0 230 4/20/93 18.0 6.0 8.6 8-m 4.2 280 18.1 8-m 4/20/93 6.5 4/20/93 18.9 3.5 350 4.0 8-m 2.8 8-m 4/21/93 19.0 230 6.0 8.7 2.9 18.7 180 5.5 8-m 4/21/93 18.0 3.7 270 5.5 8.7 8-m 4/22/93 4:33 18.2 3.7 340 7.0 8.8 8-m 4/23/93 220 18.0 3.5 7.0 9.0 8-m 4/24/93 9:16 19.0 2.5 44 20.0 8-d 4/19/93 4.0 230 6.5 8-d 4/20/93 18.0 280 6.5 8-d 4/20/93 18.0 4.1 3.5 4.5 8-d 4/20/93 18.9 360 19.0 2.9 230 5.0 8-d 4/21/93 8-d 4/21/93 18.5 3.0 160 5.0 17.7 3.8 280 6.0 8-d 4/22/93 4:33 17.8 3.8 350 7.0 8-d 4/23/93 17.5 3.5 230 8.5 8-d 4/24/93 9:16 20.0 21.0 0.8 17 9-s 4/19/93 20.0 95 5.0 9-s 4/20/93 10:45 1.3 9-s 12:35 20.0 1.5 120 5.0 4/20/93 9-s 4/20/93 15:25 20.2 1.2 220 5.0 4.5 10:50 20.2 0.8 90 9-5 4/21/93 5.0 20.9 0.9 9-s 4/21/93 18:30 9-s 4/22/93 10:35 19.9 1.3 120 4.0 5.5 19.7 1.2 160 9-s 4/23/93 4:45 9-s 4/24/93 9:20 19.7 1.3 100 6.0 17 20.0 8.3 9-m 4/19/93 20.5 0.7 9-m 20.6 1.0 70 8.0 8.9 4/20/93 10:45 9-m 4/20/93 12:35 20.2 1.2 120 6.0 9-m 15:25 20.5 1.0 200 5.5 4/20/93 5.0 9-m 4/21/93 10:50 20.3 0.8 66 8.2 5.5 9-m 4/21/93 18:30 20.0 0.8 5.0 9-m 18.9 8.3 4/22/93 10:35 1.2 110 7.0 8.2 9-m 4/23/93 4:45 19.5 1.2 160 9:20 80 7.5 8.7 9-m 4/24/93 19.5 1.0 20.0 9-d 4/19/93 20.5 17 0.7 7.5 9-d 4/20/93 10:45 20.0 1.0 76 6.5 9-d 4/20/93 12:35 20.2 1.2 120 9-d 4/20/93 15:25 20.5 1.0 200 6.0 9-d 10:50 20.5 0.8 6.0 4/21/93 66 9-d 4/21/93 18:30 20.2 0.8 6.0 9-d 5.5 4/22/93 10:35 19.8 1.1 100 9-d 7.0 4/23/93 4:45 19.5 1.2 160

1.0

180

9-d

4/24/93

9:20

18.0

In situ Respiration Test Data - FE Warre FB (4-93) Sampling TPH Pump Press Temp Point CO2 (%) Date Time 02 (%) Comments (ppm) (in Hg) (C) 10-s 4/19/93 17.5 4.3 60 6.5 10-s 4/20/93 18.0 5.5 250 6.0 10-s 4/20/93 17.8 5.8 320 5.0 10-s 4/20/93 19.0 4.2 400 6.0 10-s 4/21/93 19.0 3.5 310 5.0 10-s 4/21/93 18.5 3.8 280 4.5 10-s 4/22/93 17.9 4.5 300 5.0 10-s 4/23/93 4.5 3:43 17.4 400 6.0 10-s 4/24/93 8:30 17.5 4.3 280 6.0 10-m 4/19/93 18.0 4.0 60 7.5 10-m 4/20/93 17.9 5.0 260 8.0 10-m 4/20/93 17.8 5.2 310 7.0 10-m 4/20/93 18.9 4.0 390 8.0 10-m 4/21/93 18.8 3.5 300 7.0 8.8 10-m 4/21/93 18.0 3.9 280 6.5 10-m 17.0 4/22/93 4.5 300 9.7 7.0 10-m 4/23/93 3:43 16.6 4.8 410 8.0 9.6 10-m 8:30 4/24/93 16.8 4.5 300 8.0 9.8 10-d 4/19/93 19.0 3.0 50 8.0 9.7 10-d 4/20/93 17.5 3.9 220 9.5 9.8 10-d 4/20/93 18.0 280 4.2 8.0 10-d 4/20/93 19.0 3.2 360 8.5 10-d 4/21/93 18.5 3.2 290 8.0 10-d 4/21/93 18.0 3.5 270 7.0 10-d 4/22/93 17.0 4.5 30 8.0 10-d 4/23/93 3:43 16.3 4.8 420 8.0 10-d 4/24/93 8:30 16.1 4.7 300 9.0 11-s 4/19/93 14.0 5.5 68 5.5 11-s 4/20/93 15.0 6.0 310 5.5 11-s 4/20/93 13.5 7.5 340 6.0 11-s 4/20/93 15.5 5.9 440 5.5 11-s 4/21/93 15.1 5.0 360 5.0 11-s 4/21/93 14.8 5.0 330 5.0 11-s 4/22/93 13.0 6.2 340 5.0 11-s 4/23/93 3:37 12.8 6.5 5.5 44 11-s 4/24/93 8:28 13.0 6.0 330 6.5 11-m 4/19/93 12.5 6.0 80 9.5 11-m 4/20/93 12.2 7.8 320 9.0 11-m 4/20/93 12.3 8.0 350 8.5 11-m 4/20/93 14.9 6.0 450 9.0 11-m 4/21/93 13.0 5.7 380 8.5 8.7 11-m 4/21/93 11.8 6.0 360 7.5 11-m 4/22/93 9.0 5.0 360 7.5 100.0

7.8

7.9

10.0

14.5

480

360

79

400

8.5

9.0

7.5

7.0

9.2

9.7

9.5

9.4

11-m

11-m

11-d

11-d

4/23/93

4/24/93

4/19/93

4/20/93

3:37

8:28

8.6

8.7

2.0

In situ Respiration Test Data - FE Warren AFB (4-93)

C- 11		- C	7 3114 1163	Pilation 16		TE Warren		,
Sampling	1	m.			TPH	Pump Pre	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
12-s	4/19/93		19.0	3.2	50	5.5		ļ
12-s	4/20/93		18.3	3.8	220	6.5		
12-s	4/20/93		18.2	4.0	240	5.0	ļ	
12 - s	4/20/93		19.1	3.2	340	5.0		
12-s	4/21/93		19.2	2.3	230	6.0		Ì
12 - s	4/21/93		18.8	2.8	220	5.0		
12-s	4/22/93	ĺ	18.0	3.2	220	5.0		
12-s	4/23/93	3:34	17.7	3.3	300	6.0		
12-s	4/24/93	8:26	18.0	3.0	220	5.5		
12-m	4/19/93		18.5	3.3	56	6.5		
12-m	4/20/93		18.2	4.0	220	7.0		
12-m	4/20/93		18.0	4.3	250	6.0		İ
12-m	4/20/93		18.9	3.5	350	. 6.0		
12-m	4/21/93		18.8	2.8	260	6.5	8.8	
12-m	4/21/93		18.0	3.0	240	6.0]	
12-m	4/22/93		17.0	3.7	260	7.0	9.0	
12-m	4/23/93	3:34	16.7	3.9	350	6.0	8.6	
12-m	4/24/93	8:26	16.7	3.8	260	6.5	9.1	
12-d	4/19/93		18.5	3.0	52	6.5	8.7	
12-d	4/20/93		18.0	3.8	220	8.0	8.8	
12-d	4/20/93		18.0	4.0	230	7.5		
12-d	4/20/93		18.9	3.3	350	6.0		
12-d	4/21/93		18.5	2.8	260	6.5		
12-d	4/21/93		18.0	3.0	250	6.5		
12-d	4/22/93		17.0	3.7	260	6.5		
12-d	4/23/93	3:34	16.3	4.0	360	7.0		
12-d	4/24/93	8:26	16.2	4.0	260	7.5		
							<u> </u>	
13-s	4/19/93		18.5	3.7	54	5.0		
13-s	4/20/93		18.0	4.5	230	6.0	}	
13-s	4/20/93	İ	17.6	4.7	280	4.0		
13-s	4/20/93	ļ	18.8	3.7	240	6.0		
13-s	4/21/93	İ	18.5	3.3	280	5.5		
13-s	4/21/93		18.0	3.5	260	4.0		
13-s	4/22/93	ł	16.9	4.1	270	5.0		
13-s	4/23/93	3:29	15.0	4.5	370	5.5	Ì	
13-s	4/24/93	8:24	16.0	4.2	280	7.0		
13-m	4/19/93	0.27	18.8	3.3	50	6.5		
	4/20/93		18.0	4.0	230	7.0	1	
	4/20/93			- 1	I .	I		
I	4/20/93		18.0	4.3	260	6.0		
	1	ĺ	19.0	3.5	220	6.0	0.2	
	4/21/93		18.3	3.2	270	5.5	9.2	
,	4/21/93	1	17.8	3.2	260	55.0	00	
	4/22/93		16.5	4.0	260	5.5	9.0	
	4/23/93	3:29	15.7	4.2	370	6.5	8.8	
13-m	4/24/93	8:24	15.5	4.0	270	7.0	9.1	

In situ Respiration Test Data - FE Warrer AFB (4-93)

Sampling	3				TPH	Pump Pro	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
13-d	4/19/93		19.5	1.7	34	6.0	8.8	
13-d	4/20/93		19.2	2.3	160	8.0	9.0	
13-d	4/20/93		19.2	2.5	170	7.0	"	
13-d	4/20/93	l	19.8	2.0	140	6.6	Ì	
13-d	4/21/93	[18.9	1.8	180	7.0	1	
13-d	4/21/93		18.3	1.8	180	6.0		
13-d	4/22/93		17.0	2.5	190	6.5		
13-d	4/23/93	3:29	16.0	2.8	200	7.5		1
13-d	4/24/93	8:24	15.5	2.8	200	7.5		
10 0	1/21/70	0.24	10.0	2.0	200	1	1	
14-s	4/19/93		19.5	2.0	42	6.5	1	T
14-s	4/20/93		19.0	2.8	180	6.0		
14-s	4/20/93		19.0	2.6	180	. 6.0		
14-s	4/20/93		19.5	2.5	170	6.0		1
14-s	4/21/93		19.7	1.6	160	5.0		
14-s	4/21/93		19.0	2.1	190	5.0		1
14-s	4/22/93		18.9	2.5	180	5.0		
14-s	4/23/93	3:35	18.7	2.5	260	5.5		
14-s	4/24/93	8:21	18.5	2.3	180	6.0		
14-m	4/19/93	0.21	19.3	2.5	49	7.0		
14-m	4/20/93		19.0	3.3	- 1	6.5		
14-m					190			
1 1	4/20/93	[18.5	3.5	220	5.0		
14-m	4/20/93	i	19.2	2.7	190	6.5	0.4	
14-m	4/21/93	ļ	19.1	2.3	220	5.5	8.4	
14-m	4/21/93		18.7	2.5	210	5.5	0.5	
14-m	4/22/93		18.3	3.0	220	6.0	9.5	
14-m	4/23/93	3:35	17.5	3.3	320	6.5	8.6	
14-m	4/24/93	8:21	17.2	2.3	230	7.0	9.1	<u> </u>
14-d	4/19/93		19.0	2.5	46	7.0	9.0	
14-d	4/20/93	- 1	19.0	3.2	190	7.0	8.8	
14-d	4/20/93		18.6	3.2	220	7.0		
14-d	4/20/93		19.5	2.7	180	6.5		
14-d	4/21/93	Ì	18.1	2.3	210	6.0		
14-d	4/21/93	1	18.7	2.5	220	6.0		
14-d	4/22/93	- 1	18.0	3.0	20	6.5		
14-d	4/23/93	3:35	17.3	3.3	320	7.0		
14-d	4/24/93	8:21	17.1	3.1	230	6.5		
15-s	4/19/93	15:20	19.5	2.3	42	5.0		
15-s	4/20/93	.	19.5	2.8	180	5.0		
15-s	4/20/93		19.5	3.0	180	4.0		1
15-s	4/20/93		19.8	2.5	180	5.0		1
15-s	4/21/93	1	20.0	1.5	200	5.0	ŀ	Į
15-s	4/21/93	-	19.5	2.6	160	5.0	ļ	
15-s	4/22/93		19.1	2.4	170	4.5		
15-s	4/23/93	3:08	19.1	2.5	240	5.5]	
15-s	4/24/93	8:07	19.1	1.2	180	6.0		

In situ Respiration Test Data - FE Warre FB (4-93)

C 1:			T	1	TOLL	Dum D)	
Sampling			00 (01)		TPH	Pump Press		1_
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
15-m	4/19/93	15:20	20.0	2.0	40	6.0		
15-m	4/20/93		19.5	2.5	180	6.5		
15-m	4/20/93		19.5	2.8	180	5.0		
15-m	4/20/93		20.0	2.1	180	6.0		
15-m	4/21/93		20.0	1.5	200	6.5	9.5	
15-m	4/21/93		19.5	1.9	160	5.5		
15-m	4/22/93		19.0	2.3	170	5.0	9.4	
15-m	4/23/93	3:08	19.1	2.3	230	6.0	8.8	
15-m	4/24/93	8:07	19.0	2.2	180	7.0	9.2	
15-d	4/19/93	15:20	20.5	1.0	23	6.0	9.0	
15-d	4/20/93	1	20.0	1.5	120	6.5	8.8	
15-d	4/20/93		19.8	1.8	120	5.0		
15-d	4/20/93		20.0	1.5	110	6.5	ļ	
15-d	4/21/93		20.0	1.0	160	6.5	ľ	
15-d	4/21/93		19.9	1.3	120	5.5	ļ	
15-d	4/22/93		19.5	1.8	140	5.0	į	
15-d	4/23/93	3:08	19.0	2.0	220	6.0		
15-d	4/24/93	8:07	19.0	1.9	160			
<u> </u>								
16-s	4/19/93	16:25	20.0	2.0	36	6.0		
16-s	4/20/93		19.5	2.5	170	5.0		
16-s	4/20/93		18.3	2.7	180	5.5	j	
16-s	4/20/93		19.8	2.3	160	5.0		
16-s	4/21/93		20.0	1.3	200	5.0		
16-s	4/21/93		19.5	1.9	160	5.0	Ì	
16-s	4/22/93	Ì	19.0	2.5	180	4.5		
16-s	4/23/93	3:09	18.9	2.5	240	5.0	ŀ	
16-s	4/24/93	8:10	19.0	2.5	200	5.0		
16-m	4/19/93	16:25	20.0	1.5	30	6.0		
16-m	4/20/93		19.7	1.8	140	6.5	1	
16-m	4/20/93	l	19.5	2.0	150	5.0		
16-m	4/20/93	1	20.0	1.7	130	6.0	İ	1
16-m	4/21/93	l	21.0	0.2	180	6.5	10.0	
16-m	4/21/93	ļ	19.5	1.5	130	5.5		
16-m	4/22/93	ſ	19.0	2.0	160	5.5	9.3	
16-m	4/23/93	3:09	18.0	0.8	230	5.5	9.3	
16-m	4/24/93	8:10	18.7	2.0	180	5.5	9.6	
16-d	4/19/93	16:25	20.5	1.0	24	7.0	9.4	
16-d	4/20/93	10.20	20.0	1.3	110	7.5	9.6	
16-d	4/20/93		19.9	1.5	120	6.0	7.5	
16-d	4/20/93	- 1	20.3	1.3	100	7.5		
16-d	4/21/93		20.0	1.0	150	6.5	1	
16-d	4/21/93	[18.8		- 1	,	9.4	
16-d 16-d				1.2	100	6.5	7.4	
16-d	4/22/93 4/23/93	3.00	19.0	1.7	140	7.0		
	1	3:09	18.9	1.9	20	6.5	ŀ	
16-d	4/24/93	8:10	18.8	1.8	180	7.0		

In situ Respiration	Test Data	- FE War	AFB (4-93)
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Samplin	0	<u> </u>		piration 16	TPH		AFB (4-93	,
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	Pump Fics	1	Comments
17-s	4/19/93			2.8	50	(in Hg) 7.0	(C)	Comments
17-s	4/20/93	1	19.8	3.7	230	5.0		
17-s	4/20/93		18.5	3.8	230	4.0	1	
17-s	4/20/93	ļ	19.1	3.0	210	4.0		
17-s	4/21/93		19.3	2.4	240	5.0		
17-s	4/21/93		18.8	2.8	220	1		
17-s	4/22/93		18.0	2.3	220	4.5		
17-s	4/23/93	3:15	17.5	3.5	330	4.0		ļ
17-s	4/24/93	8:14	17.1	3.5	260	5.0		
17-m	4/19/93	16:27	18.5	2.3	44	6.0		
17-m	4/20/93	10.27	18.0	2.8	200	6.0		
17-m	4/20/93		18.9	3.0		6.0		
17-m	4/20/93		1		200	4.5	(50)	
17-m	4/21/93]	19.2 19.2	2.5	180	. 5.5		
17-m	4/21/93	1	1	2.0	210	5.5	9.4	
17-m	4/21/93		18. <i>7</i> 18.0	2.4 3.0	20	5.0	2.2	
17-m	4/23/93	3:15	4 1		220	5.0	9.3	
17-m	4/24/93	8:14	17.2	3.3	320	6.0	9.4	
17-d	4/19/93		17.1	3.3	260	7.0	9.8	
17-d	1 1	16:27	19.8	1.7	38	6.5	9.3	
17-d	4/20/93 4/20/93		19.3	2.2	170	6.6	0.6	
17-d 17-d			19.1	2.3	160	5.0		
17-d 17-d	4/20/93		19.5	2.0	150	5.5		
17-d 17-d	4/21/93		19.4	1.8	20	6.0		
17-d 17-d	4/21/93	j	18.9	2.1	180	5.0		
17-d 17-d	4/22/93		18.0	2.9	220	6.0		
	4/23/93	3:15	17.3	3.2	320	6.5		
17-d	4/24/93	8:14	17.1	4.0	250	7.0		
18-s	4/10/02	16.00	140	50				
18-s	4/19/93	16:30	16.0	5.0	68	6.0		
18-s	4/20/93		16.5	6.3	320	6.5		
	4/20/93	1	17.0	6.0	30	5.5		
18-s	4/20/93	i	18.0	4.6	260	6.0		
18-s 18-s	4/21/93	- 1	18.3	3.7	300	6.0		
	4/21/93		17.9	4.0	300	5.0		
18-s	4/22/93		16.9	4.7	300	5.0		
18-s	4/23/93	2:17	16.4	4.5	390	6.0		
18-s	4/24/93	8:16	17.0	4.3	290	7.0		
18-m	4/19/93	16:30	15.5	5.3	70	7.0		
18-m	4/20/93	1	15.3	7.0	330	6.5		
18-m	4/20/93	1	15.3	7.2	340	5.5		
18-m	4/20/93		17.0	5.5	300	6.0	1	
18-m	4/21/93	-	16.8	4.7	350	6.0	9.1	
18-m	4/21/93	- 1	16.0	5.0	340	5.0	İ	~
18-m	4/22/93		14.5	6.2	360	5.5	10.1	
18-m	4/23/93	2:17	13.9	6.5	450	6.5	0.7	
18-m	4/24/93	8:16	14.0	6.2	350	7.5	9.9	

In situ Respiration Test Data - FE Warren AFB (4-93)

Sampli	ng				TPH	Pump F	AFB (4-93	7
Poin	Date	Tim	e O2 (%)	CO2 (%)		(in Hg)	(C)	Comments
18-d	4/19/9	3 16:3		4.5	70	8.0	9.8	Continents
18-d	4/20/9	3	16.0	6.0	320	7.0	9.9	
18-d	4/20/9	3	16.0	7.3	320	6.0	7.7	
18-d	4/20/9	3	17.3	4.8	280	6.5		
18-d	4/21/9	3	16.6	4.3	340	6.0	1	
18-d	4/21/93	3	16.0	4.5	340	5.5		
18-d	4/22/93	3	14.5	6.8	350	5.5	}	
18-d	4/23/93	3 2:17	1	6.0	460	6.5	1	
18-d	4/24/93	8:16	1	6.0	360	7.0		
19-s	4/19/93	16:33	19.0	2.5	48	7.0	T	
19-s	4/20/93		18.5	3.5	230	6.5		
19-s	4/20/93		18.5	3.8	220	4.5		j
19-s	4/20/93	- [19.0	3.0	200	5.0		
19-s	4/21/93	-	18.8	2.4	240	6.0		
19-s	4/21/93	1	18.0	2.8	220	4.0		
19-s	4/22/93		16.9	3.5	240	5.0		
19-s	4/23/93	3:21	15.7	3.8	340	5.0	-	
19-s	4/24/93	8:18	15.5	4.2	360	6.0	1	
19-m	4/19/93	16:33	19.5	2.3	42	6.0		
19-m	4/20/93		18.8	3.0	20	5.5	1	
19-m	4/20/93		18.5	3.2	200	8.0		
19-m	4/20/93		19.0	2.7	180	9.0		
19-m	4/21/93		18.8	2.2	220	8.5	9.2	
19-m	4/21/93		18.0	2.5	210	8.0		
19-m	4/22/93		16.5	3.2	220	8.0	9.5	
19-m	4/23/93	3:21	15.5	3.5	330	8.5	9.4	
19-m	4/24/93	8:18	15.0	3.5	350	9.5	9.6	
19-d	4/19/93	16:33	19.2	2.3	42	8.0	9.6	
19-d	4/20/93		20.0	0.5	60	20.5	9.4	
19-d	4/20/93		18.8	3.0	200	5.0		
19 - d	4/20/93		14.5	2.5	170	7.0		Ì
19-d	4/21/93		18.0	2.0	200	6.5		1
19-d	4/21/93	İ	18.2	2.2	200	6.0		
19-d	4/22/93		17.0	3.0	210	6.0		İ
19-d	4/23/93	3:21	15.9	3.2	320	7.0		
19-d	4/24/93	8:18	15.1	3.3	230	7.5	Ì	
						<u></u>		
20-s	4/19/93	16:15	20.7	1.0	22	5.5		
20-s	4/20/93	İ	20.3	1.2	94	5.0		
20-s	4/20/93	- 1	20.6	1.5	96	4.5		
20-s	4/20/93	j	20.5	1.2	66	5.0		1
20-s	4/21/93		20.5	0.9	110	5.0	1	
20-s	4/21/93		20.3	0.9	90	4.5	-	
20-s	4/22/93	-	20.0	1.2	100	4.0		
20-s	4/23/93	3:03	20.0	1.2	140	5.0	ļ	İ
20-s	4/24/93	8:06	20.0	1.0	98	6.0		

In situ Respiration Test Data - FE Warre 78 (4-93)

Sampling			In situ Hes	1	TPH	Pump Press	Temp	,
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
20-m	4/19/93	16:15	20.9	0.7	14	8.5	(C)	Comments
20-m	4/20/93	10.15	20.5	0.7	60	8.0		
20-m	4/20/93		20.5	1.0	68	7.0		
20-m	4/20/93		20.5	0.8	44	8.0		
20-m	4/20/93		20.8	0.8	70	8.0	9.7	
20-m	4/21/93		20.5	0.7	48	7.5	7.7	
20-m	4/21/93	ĺ	20.8	0.8	80	7.0	7.8	
20-m	4/23/93	3:03	20.0	0.8	120	8.0	7.9	
20-m 20-m	4/24/93	8:06	20.0	0.9	68	9.0	8.2	
20-m 20-d			20.8	0.5	2	8.0	8.1	
20-d 20-d	4/19/93 4/20/93	16:15	20.8	0.5	20	6.5	7.7	
20-d 20-d	4/20/93		20.7	0.5	30	5.5	7.7	
			1			6.5		
20-d 20-d	4/20/93	Į	20.8 20.9	0.6 0.6	32 28	7.0		
20-d 20-d	4/21/93 4/21/93		20.9	0.6	28 12	6.0		
20-d 20-d	4/21/93		20.8	0.6	60	6.0		
20-d 20-d	4/22/93	3:03	20.2	0.8 0.7	80	7.0		
20-d	4/24/93	8:06	20.1	0.7	38	7.5		
20-α	4/24/73	0.00	20.0	0.0	30	7.5		
21-s	4/19/93	16:10	20.5	1.5	22	6.0		
21-s	4/20/93	10.10	20.6	1.5	130	6.5	•	
21-s	4/20/93		20.0	1.8	110	5.0		
21-s	4/20/93		20.2	1.5	120	6.0		
21-s	4/21/93		20.5	1.0	100	5.5		
21-s	4/21/93		20.1	1.2	100	5.0		
21-s	4/22/93		20.0	1.5	64	5.0		
21-s	4/23/93	2:58	20.0	1.5	160	6.0		
21-s	4/24/93	8:03	20.0	1.3	140	7.0		
21-m	4/19/93	16:10	20.9	1.1	20	9.0		
21-m	4/20/93	10.10	20.9	1.3	110	9.0		
21-m	4/20/93		20.2	1.6	90	8.5		
21-m	4/20/93		20.5	1.2	100	9.0		
21-m	4/21/93		20.2	0.9	90	9.0	9.6	
21-m	4/21/93	1	20.2	1.0	80	8.5	2.0	
21-m	4/22/93		20.0	1.3	100	8.5	8.0	
21-m	4/23/93	2:58	19.8	1.3	160	9.5	7.7	
21-m	4/24/93	8:03	20.0	1.0	120	9.5	8.2	
21-d	4/19/93	16:10	20.9	0.7	60	7.0	7.8	
21-d	4/20/93		20.8	0.7	44	6.5	8.2	
21-d	4/20/93		20.5	0.8	22	5.0		
	4/20/93		20.7	0.7	60	5.0		
I .	4/21/93		20.8	0.7	32	6.0		
	4/21/93		20.5	0.6	32	6.0		
	4/22/93		20.5	0.6	60	5.5		
1	4/23/93	2:58	20.1	0.7	110	7.0		
	4/24/93	8:03	- 1	0.8	47	7.0		
21-u	T/ 42/ 70	0.03	20.0	U./	1/	7.0		

In situ Respiration Test Data - FE Warre FB (4-93) Sampling TPH Pump Press Temp O2 (%) Point Date Time CO2 (%) (ppm) (in Hg) (C) Comments 22-s 4/19/93 16:05 18.0 2.5 60 70.0 22-s 4/20/93 18.0 3.2 200 6.5 22-s 4/20/93 18.0 3.5 200 4.5 22-s 4/20/93 18.5 2.8 200 5.0 22-s 4/21/93 19.0 2.1 240 5.0 22-s 4/21/93 18.3 2.5 200 4.5 22-s 4/22/93 17.8 3.0 290 4.0 22-s 4/23/93 2:55 17.3 3.1 2820 4.5 22-s 4/24/93 8:02 17.9 3.0 230 5.0 22-m 4/19/93 16:05 19.2 1.5 6.0 10 22-m 4/20/93 18.0 1.8 140 6.5 22-m 4/20/93 18.9 2.0 130 5.0 22-m 4/20/93 19.2 1.8 150 6.0 22-m 4/21/93 19.3 1.3 160 7.0 9.3 22-m 4/21/93 18.8 1.5 140 6.0 22-m 4/22/93 18.0 2.0 240 5.0 8.6 22-m 2:55 4/23/93 17.7 2.2 220 6.5 8.9 22-m 4/24/93 8:02 17.9 180 2.0 6.5 9.2 22-d 4/19/93 16:05 19.6 0.9 20 7.5 9.3 22-d 4/20/93 19.5 1.2 110 7.0 9.0 22-d 4/20/93 19.4 1.3 100 6.0 22-d 4/20/93 19.8 1.1 110 8.0 22-d 4/21/93 19.7 1.0 101 7.0 22-d 4/21/93 19.1 1.0 110 7.0 22-d 4/22/93 18.5 1.5 200 6.0 22-d 4/23/93 2:55 18.0 1.7 190 7.5 22-d 4/24/93 8:02 18.0 1.5 150 7.0 23-s 4/19/93 15:50 19.5 1.5 100 5.0 23-s 4/20/93 19.0 2.5 170 5.5 23-s 4/20/93 18.9 2.5 180 5.0 23-s 4/20/93 19.4 1.9 200 6.5 23-s 4/21/93 18.8 1.5 170 6.0 23-s 4/21/93 18.8 1.8 170 5.0 23-s 4/22/93 19.0 2.0 190 5.5 23-s 4/23/93 17.7 2.5 240 5.0 23-s 4/24/93 7:58 18.5 2.0 180 5.0 23-m 4/19/93 15:50 19.0 1.4 110 9.0 23-m 4/20/93 19.0 2.4 170 9.0 23-m 4/20/93 18.8 2.5 170 8.5 23-m 4/20/93 19.5 1.9 160 9.0 23-m 4/21/93 19.2 1.5 170 9.0 8.7 23-m 4/21/93 18.5 1.8 160 8.5

2.0

2.3

2.0

240

230

190

7.5

8.5

9.5

8.3

8.5

8.7

17.9

17.0

17.0

23-m

23-m

23-m

4/22/93

4/23/93

4/24/93

7:58

			in situ nes	piration is		FE Warre	FB (4-93	3)
Sampling	1		1		TPH	Pump Press	Temp	
Point	Date	Time		CO2 (%)	(ppm)	(in Hg)	(C)	Comments
23-d	4/19/93		1	1.0	80	6.5	8.4	
23-d	4/20/93	1	19.5	1.4	100	7.0	8.4	ĺ
23-d	4/20/93		19.2	1.7	130	6.5	ļ	
23-d	4/20/93	1	19.8	1.3	120	7.0	ļ	
23-d	4/21/93		19.5	1.2	150	7.0		
23-d	4/21/93		18.8	1.5	140	6.5		
23-d	4/22/93	1	17.9	2.9	20	6.0	}	
23-d	4/23/93		17.0	2.3	220	6.0		
23-d	4/24/93	7:58	16.8	2.1	220	5.0		
24.0	4/10/03	15.45	105	20	170	(0		
24-s	4/19/93	15:45	18.5	3.8	170	6.0		
24-s	4/20/93	1	18.0	3.6	220	5.5		
24-s	4/20/93		18.1	3.9	240	5.0	1	
24-s	4/20/93		18.7	3.3	260	5.5		
24-s	4/21/93		19.0	2.5	260	6.0		
24-s	4/21/93		18.0	2.9	230	5.0		
24-s	4/22/93	0.45	19.0	3.3	250	4.5		ľ
24-s	4/23/93	2:45	16.3	3.7	280	5.0		
24-s	4/24/93	7:56	16.0	3.5	260	5.0		
24-m	4/19/93	15:45	19.0	2.1	140	7.0		
24-m	4/20/93		18.8	2.8	120	6.5		
24-m	4/20/93		18.6	3.1	200	5.5		
24-m	4/20/93		19.0	2.5	230	6.0		
24-m	4/21/93		19.1	2.0	240	6.0	9.8	
24-m	4/21/93		18.0	2.0	210	5.5		
24-m	4/22/93		17.0	2.9	230	5.0	9.7	
1	4/23/93	2:45	16.0	3.3	260	6.0	9.4	
	4/24/93	<i>7</i> :56	15.5	3.1	240	6.0	9.9	
	4/19/93	15:45	20.0	1.2	90	7.5	9.7	
	4/20/93		19.8	0.8	140	7.0	9.6	
	4/20/93		19.2	3.2	180	6.0		
	4/20/93		19.5	1.9	200	6.0		
	4/21/93	-	19.1	1.7	200	6.5		
	4/21/93]	18.2	2.0	190	6.0		
	4/22/93		17.0	2.5	220	5.0		
	4/23/93	2:45	16.1	3.0	260	6.5	1	
24-d	4/24/93	7:56	16.0	3.0	240	6.0		
25-s	4/19/93	15:15	20.5	1.0	110	5.5	1	
	1/20/93		20.0	1.7	94	20.0	J	
	1/20/93		19.8	2.5	190	5.0	ľ	
- 1	1/20/93	- 1	20.0	1.9	200	5.5		
- 1	1/21/93		20.0	1.1	170	5.5	}	
	1/21/93		19.8	1.8	130	5.0		
- 1	1/22/93		19.5					
	1/23/93	2:31	19.5	2.0	160 200	5.0 5.6		
	1/20/70	7:07	17.0	4.1	200	J.0	1	

In situ Respiration Test Data - FE Warre FB (4-93)

C 1:		-					<u> </u>	
Sampling	1		00 (0)	600 (0)	TPH	Pump Press		
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
25-m	4/19/93	15:15	19.5	0.7	80	17.0	ļ	
25-m	4/20/93		20.0	0.9	38	20.0		1
25-m	4/20/93		19.7	1.5	140	17.0		
25-m	4/20/93		20.0	1.1	160	17.5		
25-m	4/21/93	ĺ	20.0	0.7	100	18.0	8.3	
25-m	4/21/93	ĺ	20.0	1.0	72	17.0		
25-m	4/22/93	İ	19.7	1.0	120	17.5	8.7	
25-m	4/23/93	2:31	19.5	1.2	130	17.5	7.8	
25-m	4/24/93	7:46	20.0	1.0	100	17.0	8.3	
25-d	4/19/93	15:15	20.9	0.6	40	7.0	8.6	
25-d	4/20/93		20.5	0.7	12	20.0	8.3	
25-d	4/20/93		20.5	0.8	100	6.0		
25-d	4/20/93		20.8	0.7	110	· 7.5		
25-d	4/21/93		20.8	0.5	56	7.0		
25-d	4/21/93	i i	20.5	0.7	36	6.0		
25-d	4/22/93		20.2	0.7	72	6.5		
25-d	4/23/93	2:31	20.2	0.8	100	6.0		
25-d	4/24/93	7:46	20.3	0.7	70	8.5		
26-s	4/19/93	15:20	20.9	0.8	60	7.5		
26-s	4/20/93	- 1	20.5	0.9	44	20.4		
26-s	4/20/93		20.2	1.3	100	7.0		
26-s	4/20/93	ĺ	20.5	1.0	140	5.0		9
26-s	4/21/93		20.7	0.7	110	5.0		
26-s	4/21/93	1	20.1	1.0	63	5.0		
26-s	4/22/93		20.0	1.0	80	5.0	-	
26-s	4/23/93	2:35	20.0	1.3	150	5.5	1	
26-s	4/24/93	7:48	20.0	1.0	110	6.0		
26-m	4/19/93	15:20	20.9	0.7	60	8.0		
26-m	4/20/93		20.7	0.8	42	20.5	İ	
26-m	4/20/93		20.5	1.0	90	7.0		
26-m	4/20/93	1	20.5	0.8	130	7.5	1	
26-m	4/21/93	1	20.8	0.7	80	6.5	8.8	
26-m	4/21/93	İ	20.3	0.8	40	6.0		
26-m	4/22/93		20.0	0.8	56	6.5	9.4	
26-m	4/23/93	2:35	20.0	1.0	120	6.0	9.2	
26-m	4/24/93	7:48	20.0	0.8	80	7.0	8.8	
26-d	4/19/93	15:20	20.9	0.6	30	8.0	8.8	·
26-d	4/20/93	13.20	20.7	0.7	24	20.6	8.5	
26-d	4/20/93		20.5	0.8	80	7.0	0.5	
26-d	4/20/93	[20.7	0.8	100	7.0		
26-d	4/21/93					I		
26-d			20.9	0.6	60	6.5		
26-d 26-d	4/21/93	-	20.5	0.7	32	6.5	1	
- 1	4/22/93	2.25	20.0	0.7	64	6.0		
	4/23/93	2:35	20.0	0.9	120	6.0		
26-d	4/24/93	7:48	20.0	0.8	80	7.5		

In situ Respiration Test Data - FE Warren AFB (4-93)

C1:				1	TPH	D	Toma	
Sampling Point	Date	Time	O2 (%)	CO2 (%)	I	Pump Pi	Temp	Comments
27-s	4/19/93	15:25	19.0	2.5	(ppm) 200	(in Hg) 8.0	(C)	Conditions
27-s	4/20/93	15.25	18.8	3.9	240	21.0		
27-s	4/20/93		17.5	5.5	300	9.0	İ	
27-s	4/20/93		18.5	4.5	310	9.0		
27-s	4/21/93		18.5	3.5	320	8.0	ĺ	
27-s	4/21/93		18.0	3.9	270	7.5	ļ	
27-s	4/22/93		17.0	4.3	300	9.0		
27-s	4/23/93	2:40	16.2	4.5	340	8.5		
27-s	4/24/93	7:51	16.5	4.0	290	8.0		ĺ
27-m	4/19/93	15:25	19.3	3.0	190	8.0	1	
27-m	4/20/93	15	18.0	3.5	210	21.1		
27-m	4/20/93	1	17.7	5.2	300	7.0		
27-m	4/20/93		18.0	4.3	310	7.0		
27-m	4/21/93		17.8	3.5	320	8.0	9.0	
27-m	4/21/93	İ	16.7	4.1	290	6.0	7.0	
27-m	4/22/93		15.0	4.8	320	6.5	8.9	
27-m	4/23/93	2:40	13.8	5.2	380	6.0	8.5	
27-m	4/24/93	7:51	13.9	5.0	320	7.5	8.7	
27-d	4/19/93	15:25	20.0	1.3	100	8.0	8.6	
27-d	4/20/93	10.20	20.0	1.7	120	21.0	8.7	
27-d	4/20/93		19.0	2.8	200	7.0	0	
27-d	4/20/93		19.1	2.5	220	7.0		
27-d	4/21/93		18.3	2.5	260	10.0		
27-d	4/21/93		17.5	3.0	230	9.5		
27-d	4/22/93		16.0	3.9	270	7.5		
27-d	4/23/93	2:40	17.8	4.7	360	7.0		
27-d	4/24/93	7:51	13.1	4.8	320	7.5 7.5		
	2, 22, 70					,		
28-s	4/19/93	15:30	3.5	12.0	300	6.0		
28-s	4/20/93	1	10.0	10.0	360	20.0		
28-s	4/20/93	1	3.2	19.0	430	4.5		
28-m	4/19/93	15:30	2.5	12.0	300	7.0		
28-m	4/20/93		10.0	10.0	360	20.5		
28-m	4/20/93		3.0	18.0	430	5.5		
28-d	4/19/93	15:30	0.0	6.5	280	7.0	10.2	
28-d	4/20/93		12.0	6.0	340	21.0	10.3	
28-d	4/20/93	[6.0	9.5	380	6.0		
		·				·		
29-s	4/19/93	15:35	6.0	5.0	220	7.0		
29-s	4/20/93		16.7	4.5	250	21.0		
29-s	4/20/93		13.0	7.2	340	5.0		
29-s	4/20/93	-	14.5	5.9	360	5.5		
29-s	4/21/93	14:30	14.0	4.8	400	8.5		
29-s	4/21/93		13.2	4.7	420			
29-s	4/22/93		12.3	5.5	330	5.5		·
29-s	4/23/93		10.0	6.5	360	5.5		
29-s	4/24/93	14:44	14.5	6.0	400	6.5	10.1	
29-s	4/24/93	7:52	12.7	5.3	340	6.0	9.6	

In situ Respiration	Test	Data	- F	Ε	War	AFB	(4-93)
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Sampling		<u> </u>	T		TPH	Pump Press	Temp	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
29-m	4/19/93	15:35	8.0	8.0	270	8.0	· · ·	
29-m	4/20/93	.	7.5	11.0	300	20.0		
29-m	4/20/93		8.5	11.0	390	6.0		
29-m	4/20/93		10.3	8.8	400	7.0		
29-m	4/21/93	14:30	8.0	7.0	460	8.5	10.0	
29-m	4/21/93	1	6.5	7.3	350	7.0		,
29-m	4/22/93	1	5.0	8.0	390	6.0		
29-m	4/23/93		2.0	10.0	420	7.5	10.5	
29-m	4/24/93	14:44	1.0		0			
29-d	4/19/93	15:35	12.0	3.8	200	6.0	10.1	
29-d	4/20/93	1	16.2	3.2	180	20.5	10.2	
29-d	4/20/93		10.5	5.5	320	6.0		
29-d	4/20/93		11.3	5.0	350	6.5		
29-d	4/21/93	14:30	6.0	6.0	460	7.0		
29-d	4/21/93	ļ	5.2	6.6	350	6.5		
29-d	4/22/93		3.5	7.7	390	6.0		
30-s	4/19/93	15:10	20.5	0.6	23	15.0		
30-s	4/20/93		20.9	0.7	20	20.4	:	
30-s	4/20/93		20.2	0.8	76	14.0	ì	
30-s	4/20/93		20.5	0.6	90	16.0		
30-s	4/21/93		20.3	0.5	60	15.0		
30-s	4/21/93		20.5	0.6	20	13.0		
30-s	4/22/93		20.5	0.5	44	13.0	ļ	
30-s	4/23/93	14:27	20.5	0.7	40	13.5		
30-s	4/24/93	7:44	20.3	0.6	34	15.0		
30-m	4/19/93	15:10	19.5	0.5	20	17.0		
30-m	4/20/93		20 .6	0.5	6	20.8		
30-m	4/20/93	ĺ	20.0	0.6	60	18.0		
30-m	4/20/93	1	20.5	0.6	100	17.0	ļ	
	4/21/93		20.7	0.5	79	17.0	7.4	
- 1	4/21/93	İ	20.5	0.5	28	17.0		
	4/22/93		20.2	0.6	68	18.0	7.2	
1	4/23/93	14:27	20.2	0.7	50	17.5	7.2	
	4/24/93	7:44	20.6	0.5	26	17.0	8.0	
	4/19/93	15:10	20.0	0.7	40	7.5	7.5	
- 1	4/20/93	Ì	20.0	0.5	11		7.6	
	4/20/93	İ	20.0	0.8	98	9.0		
	4/20/93	1	20.3	0.7	100	8.0	}	
	4/21/93		20.8	0.5	56	8.0	- 1	
1	4/21/93		20.0	0.7	48	7.0	-	
,	4/22/93		20.0	0.6	86	7.0	ĺ	
	4/23/93	14:27	20.0	0.7	74	6.5	1	
30-d	4/24/93	7:44	20.2	0.7	46	7.0		

In situ Respiration Test Data - FE Warrs FB (4-93)

			III SILU NES	piration .			FB (4-93	<u>, </u>
Sampling			1		TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
31-s	4/19/93	15:05	20.8	0.8	30	5.0	1	
31-s	4/20/93		20.5	0.8	60	21.0		
31-s	4/20/93		20.0	1.0	120	6.0	i	
31-s	4/20/93		20.5	0.8	100	6.5		
31-s	4/21/93	j	20.8	0.6	80	5.5		
31 - s	4/21/93	į	20.2	0.7	42	5.0	ļ	
31-s	4/22/93		20.0	0.7	58	5.0	Ì	
31-s	4/23/93	14:24	20.3	0.7	69	6.0		}
31-s	4/24/93	7:41	20.5	0.7	90	6.0		
31-m	4/19/93	15:05	16.5	0.7	22	10.0		
31-m	4/20/93		19.5	0.6	26	21.0		
31-m	4/20/93	l	19.5	0.8	100	13.5		
31-m	4/20/93		20.2	0.8	100	14.0		
31-m	4/21/93		20.5	0.6	70	12.0	7.9	
31-m	4/21/93		20.1	0.7	35	12.0		
31-m	4/22/93		20.0	0.7	66	13.0	7.6	
31-m	4/23/93	14:24	20.0	0.7	<i>7</i> 5	13.0	7.8	
31-m	4/24/93	7:41	20.5	0.6	60	13.0	8.1	
31-d	4/19/93	15:05	18.5	0.8	22	8.0	8.1	
31-d	4/20/93		19.8	0.6	14	21.0	8.1	
31-d	4/20/93		19.5	1.0	120	8.5		
31-d	4/20/93	Į	20.1	0.8	100	8.5		
31-d	4/21/93	[20.5	0.6	80	8.0		
31-d	4/21/93	i	20.1	0.8	58	7.5		
31-d	4/22/93	14.04	20.0	0.7	84	7.0		
31-d	4/23/93	14:24	19.9	0.8	100	8.0		
31-d	4/24/93	7:41	20.0	0.6	60	8.5		
32-s	4/19/93	15:00	8.5	4.7	70	20.0		
32-s	4/20/93		18.0	3.5	220	21.0		
32-s	4/20/93	- 1	17.2	4.0	260	20.0	ľ	
32-s	4/20/93		18.5	3.1	240	19.0	·	
32-s	4/21/93		18.0	2.8	300	20.0		
32-s	4/21/93		17.0	3.5	320	18.5		
32-s	4/22/93		17.0	3.7	300			
32-s	4/23/93		16.6	4.2	300	18.0		
32-s	4/24/93	7:31	17.0	3.7	300	18.0	ļ	
32-m	4/19/93	15:00	4.5	10.5	80	17.0		
32-m	4/20/93	- 1	9.0	10.2	380	21.0		
32-m	4/20/93	İ	5.5	16.0	450	18.0		
32-m	4/20/93		8.5	12.5	470	17.5		
32-m	4/21/93	ļ	7.7	11.0	540	17.0	9.2	
32-m	4/21/93	}	6.7	11.0	530	17.0		
	4/22/93		5.7	12.5	500	17.0	9.1	
	4/23/93		5.7	12.2	480	17.0	8.9	
	4/24/93	7:31	7.0	10.5	500	15.0	9.3	25
	4/19/93	15:00	0.0	14.0	1200	10.0	8.8	
- 1	4/20/93		4.8	8.0	100	21.0	8.8	

In situ Respiration Test Data - FE Warre FB (4-93) Sampling TPH Pump Press Temp CO2 (%) Comments Time O2 (%) (ppm) Point Date (in Hg) (C) 120 4/19/93 14:30 10.5 8.5 9.4 33-s 6.0 360 33-s 4/20/93 12.3 9.3 21.0 11.0 400 33-s 4/20/93 11.0 5.5 390 33-s 13.0 8.5 6.0 4/20/93 7.3 33-s 14.5 440 5.0 4/21/93 33-s 14.3 7.5 440 5.0 4/21/93 4/22/93 33-s 14.1 7.5 420 5.0 15.8 7.2 400 5.0 33-s 4/23/93 14:09 370 7:37 6.5 33-s 4/24/93 16.0 6.3 33-m 4/19/93 14:30 8.0 9.5 80 10.0 11.2 370 20.5 33-m 4/20/93 9.8 8.3 13.0 420 10.0 33-m 4/20/93 11.0 10.0 410 10.0 33-m 4/20/93 11.5 8.5 480 9.0 9.7 33-m 4/21/93 9.0 470 9.0 11.3 33-m 4/21/93 9.2 33-m 4/22/93 11.5 9.5 440 8.0 12.7 9.5 450 9.0 8.9 33-m 4/23/93 14:09 7:37 14.0 8.2 400 9.0 9.5 33-m 4/24/93 12.0 9.3 33-d 14:30 3.5 2.5 440 4/19/93 5.3 760 20.0 9.9 33-d 4/20/93 5.2 33-d 4/21/93 2.5 9.3 1300 12.5 16.5 4.0 200 7.0 34-s 14:15 4/19/93 34-s 4/20/93 8:50 18.0 4.0 180 20.0 4/20/93 11:25 17.5 4.3 260 5.5 Background Vac 2.0 34-s 9.9 250 5.0 34-s 17.8 4/20/93 14:15 17.0 3.5 440 5.5 No diluter 34-s 4/21/93 8:40 17:00 3.7 330 5.5 Sensor change in meter 34-s 4/21/93 16.7 34-s 9:00 15.7 4.0 300 5.0 4/22/93 34-s 14:05 15.0 4.5 300 5.0 4/23/93 34-s 4/24/93 7:35 15.0 4.1 300 6.5 10.0 34-m 4/19/93 14:15 17.0 4.0 220 8.0 34-m 17.5 200 20.0 System shut off 8:25 4/20/93 8:50 4.3 34-m 4.7 290 6.5 4/20/93 11:25 16.7 270 34-m 4/20/93 14:15 17.0 10.0 6.0 34-m 4/21/93 8:40 16.0 3.7 460 6.0 10.0 No diluter 34-m 4/21/93 17:00 15.0 4.0 350 6.5 9.3 34-m 4/22/93 9:00 14.0 4.5 340 6.5 9.5 34-m 5.0 6.6 4/23/93 14:05 13.1 340 7.5 10.2 34-m 4/24/93 7:35 13.3 3.8 340 220 7.0 34-d 17.5 3.5 4/19/93 14:15 10.3 34-d 4/20/93 8:50 17.0 3.7 170 20.0 34-d 4/20/93 16.0 280 6.5 11:25 4.4 270 34-d 4/20/93 14:15 16.3 9.9 6.5

No diluter

3.7

4.2

4.8

5.5

5.0

460

360

340

350

340

6.0

6.5

6.0

6.0

7.0

34-d

34-d

34-d

34-d

34-d

4/21/93

4/21/93

4/22/93

4/23/93

4/24/93

8:40

17:00

9:00

14:05

7:35

15.0

14.3

12.9

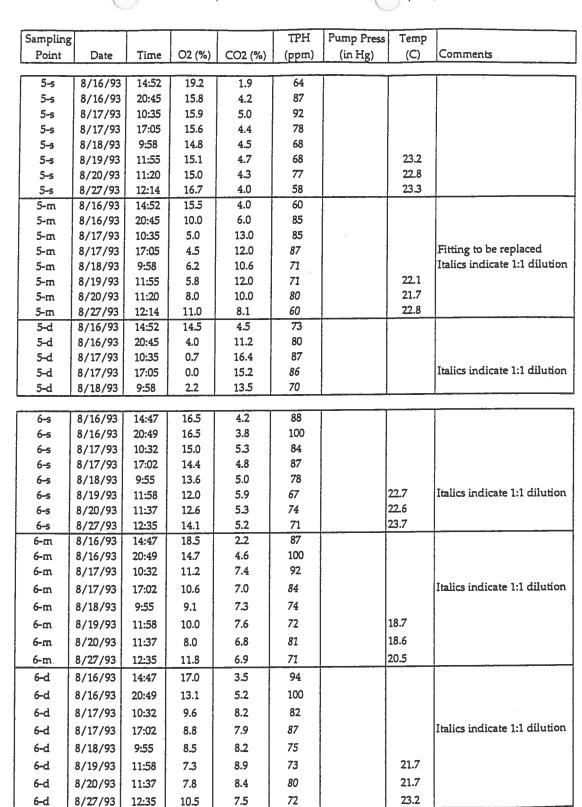
12.0

In situ Respiration Test Data - FE Warren AFB (8-93)

Sampling	1		Ī		TPH	Pump Press	Temp	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
1-s	8/16/93	15:21	14.0	3.9	70		(- / - /	
1-s	8/16/93	20:42	12.5	6.4	90			
1-s	8/17/93	10:48	11.9	8.5	72]		
1-s	8/17/93	17:15	11.5	7.8	72			
1-s	8/18/93	10:12	12.3	6.4	63			Italics indicate 1:1 dilution
1-s	8/19/93	11:51	10.4	8.1	67		22.4	
1 - s	8/20/93	11:34	12.2	7.0	98	-	22.0	
1-5	8/27/93	12:31	14.5	5. <i>7</i>	65		23.5	
1-m	8/16/93	15:21	13.7	5.8	76			
1-m	8/16/93	20:42	5.5	11.0	80			
1-m	8/17/93	10:48	4.0	15.5	64			
1-m	8/17/93	1 <i>7</i> :15	3.3	14.5	75			Italics indicate 1:1 dilution
1-m	8/18/93	10:12	7.2	11.2	67			
1-m	8/19/93	11:51	6.0	13.5	69		19.9	2
1-m	8/20/93	11:34	8.4	10.6	91		20.1	
1-m	8/27/93	12:31	11.9	7.7	69		21.8	
1-d	8/16/93	15:21	12.2	6.2	56			
1-d	8/16/93	20:42	3.4	11.8	76	İ		
1-d	8/17/93	10:48	1.0	16.8	64			
1-d	8/17/93	17:15	0.0	15.9	76	ĺ		
2-5	8/16/93	15:17	17.6	3.3	84			
2-s	8/16/93	20:39	14.8	5.1	90	Ì		
2-5	8/17/93	10:44	15.9	5.7	72	1		
2-s	8/17/93	17:13	15.2	5.1	74			
2-s	8/18/93	10:09	16.3	4.5	65	-		
2-s	8/19/93	11:48	15.8	4.8	66		22.4	
2-s	8/20/93	11:31	16.1	4.3	82		21.9	
2-s	8/27/93	12:25	17.7	3.4	66		23.4	
2-m	8/16/93	15:17	11.5	7.3	80			
2-m	8/16/93	20:39	10.0	8.2	85			
2-m	8/17/93	10:44	10.1	10.6	70			
2-m	8/17/93	17:13	9.5	9.7	81			Italics indicate 1:1 dilution
2-m	8/18/93	10:09	11.7	8.2	69			
2-m	8/19/93	11:48	10.8	9.2	68			Thermo-couple Broken
2-m	8/20/93	11:31	12.0	7.8	83			
2-m	8/27/93	12:25	14.1	6.1	63			
2-d	8/16/93	15:17	10.5	7.8	78			
2-d	8/16/93	20:39	7.0	9.6	84			
2-d	8/17/93	10:44	5.9	13.5	66			
2-d	8/17/93	17:13	5.3	12.5	80	1		Italics indicate 1:1 dilution
2-d	8/18/93	10:09	8.0	10.5	69			
2-d	8/19/93	11:48	7.0	12.5	69		1 <i>7</i> .0	
2-d	8/20/93	11:31	9.2	9.8	85		17.0	
2-d	8/27/93	12:25	12.0	7.5	68	1	19.0	

In situ Respiration Test Data - FE Warren ArB (8-93)

Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
3-s	8/16/93	15:13	16.0	4.0	76			
3-s	8/16/93	20:36	9.5	7.8	84			
3-s	8/17/93	10:41	7.3	10.6	100	ļ		
3-s	8/17/93	17:11	8.6	9.1	83			Italics indicate 1:1 dilution
3-s	8/18/93	10:06	9.5	8.3	68		00.7	
3-s	8/19/93	11:44	8.3	9.5	68		23.7	
3-s 3-s	8/20/93	11:28 12:21	9.8 12.5	7.8 6.4	82 60		23.5 25.2	
3-m	8/27/93 8/16/93	15:13	13.0	5.5	80		23.2	
3-m	8/16/93	20:36	7.8	8.5	82	.8		1
3-m	8/17/93	10:41	6.1	12.0	110			
3-m	8/17/93	17:11	5.7	10.7	84			Italics indicate 1:1 dilution
3-m	8/18/93	10:06	8.0	9.4	70			
3-m	8/19/93	11:44	6.0	11.1	70		20.5	
3-m	8/20/93	11:28	8.1	9.1	84		20.1	
3-m	8/27/93	12:21	11.1	7.2	61		22.0	
3-d	8/16/93	15:13	14.0	4.3	80			=
3-d	8/16/93	20:36	6.8	8.8	88			
3-d	8/17/93	10:41	5.4	12.3	105			
3-d	8/17/93	17:11	4.9	10.9	84	ĺ		Italics indicate 1:1 dilution
3-d	8/18/93	10:06	7.7	9.5	70	[14.0	
3-d	8/19/93	11:44	6.5	11.0	70		16.9	
3-d	8/20/93	11:28	8.6	9.0	85		16.7 18.7	
3-d	8/27/93	12:21	10.3	7.0	61 70		10.7	
4-s 4-s	8/16/93 8/16/93	15:02 20:33	21.0 7.5	0.3 9.5	80	Ì		
4-s	8/17/93	10:38	6.6	12.6	100	ļ		
4-s	8/17/93	17:08	6.0	11.3	85			Italics indicate 1:1 dilution
4-s	8/18/93	16:03	7.0	10.0	70			
4-s	8/19/93	11:42	5.5	11.9	70		18.5	
4-s	8/20/93	11:26	7.0	11.0	80		23.3	
4-s	8/27/93	12:18	11.8	7.5	60		24.6	!!
4-m	8/16/93	15:02	14.0	3.9	64			
4-m	8/16/93	20:33	5.5	10.5	80			
4-m	8/17/93	10:38	3.0	14.8	100			g.
4-m	8/17/93	17:08	2.2	13.6	88			Italics indicate 1:1 dilution
4-m	8/18/93	16:03	4.5	12.0	74	Ī		
4-m	8/19/93	11:42	2.9	14.1	70		23.7	
4-m	8/20/93	11:26	4.6	12.0	83		18.6	
4-m	8/27/93	12:18	9.9	9.1	60		19.9	
4-d	8/16/93	15:02	14.0	3.8	68			
4-d	8/16/93	20:33	4.0	11.2	84			Italics indicate 1:1 dilution
4-d	8/17/93	10:38	1.3	16.0	100			Italics indicate 1:1 diludon
4-d	8/17/93	17:08	0.7	14.7	87			



Sampling		1		<u> </u>	TPH	Pump Press	Temp	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
	1		1 00 (11)	1 334 (13)	1 (66.00)	(=16/		
7-s	8/16/93	14:42	18.6	2.6	82			
7-s	8/16/93	17:52	17.5	3.3	80			
7-s	8/16/93	19:26	16.3	4.0	80	! !		
7-s	8/17/93	10:28	17.7	3.8	68			
7-s	8/17/93	10:58	17.3	3.4	77			
7-s	8/18/93	11:30	17.8	3.0	56			Replaced Fitting
7-s	8/19/93	12:00	16.7	3.8	67			
7-s	8/20/93	11:41	17.0	3.3	71			
7-s	8/27/93	12:38	17.8	2.9	67			
7-m	8/16/93	14:42	18.6	2.3	80	1		
7-m	8/16/93	17:52	17.8	2.7	80			
7-m 7-m	8/16/93 8/17/93	19:26 10:28	16.5 17.3	3.7 3.7	80 68			
7-m	8/17/93	10:58	17.9	3.4	68	Ì		Italics indicate 1:1 dilution
7-m	8/18/93	11:30	17.8	3.1	58			
7-m	8/19/93	12:00	16.5	3.6	67	1	19.8	Cloudy day, cool
7-m	8/20/93	11:41	16.5	3.3	72		20.1	, , , , , , , , , , , , , , , , , , , ,
7-m	8/27/93	12:38	17.1	3.1	67		21.2	
7-d	8/16/93	14:42	19.0	2.0	84			
7-d	8/16/93	1 <i>7</i> :52	18.5	2.1	<i>7</i> 5			
7-d	8/16/93	19:26	17.0	3.1	80			
7-d	8/17/93	10:28	17.6	3.2	69			
7-d	8/17/93	10:58	17.1	2.9	77			
7-d	8/18/93	11:30	18.0	2.7	54			Replace fitting
7-d	8/19/93	12:00	16.5	3.2	66			Rained last night
7-d	8/20/93	11:41	16.8	2.9	70	+		
7-d	8/27/93	12:38	16.9	3.0	67			
0 - 1	9/16/02	14.27	100	2.0	120			
8-s	8/16/93	14:37	19.8	2.8	130			
8-s	8/16/93	20:53	18.0	3.5	92			
8-s	8/17/93	12:37	16.5	4.5	86			
8-s	8/18/93	11:34	17.1	3.7	58			
8-s	8/19/93	12:04	15.2	4.8	67			
8-s	8/20/93	11:44	15.2	4.3	70			
8-s	8/27/93	12:42	16.2	3.7	64			
8-m	8/16/93	14:37	18.3	2.8	120			
8-m	8/16/93	20:53	17.8	3.0	88	}		
8-m	8/17/93	12:37	16.1	4.2	82			
8-m	8/18/93	11:34	17.2	3.3	58			
8-m	8/19/93	12:04	14.9	4.5	68		21.4	
8-m	8/20/93	11:44	15.0	4.0	70		21.1	
1	- 1	1	1	- 1	65		22.5	
8-m	8/27/93	12:42	15.3	3.9	ರು	<u>i</u> _		

In situ Respiration Test Data - FE Warren AFB (8-93)

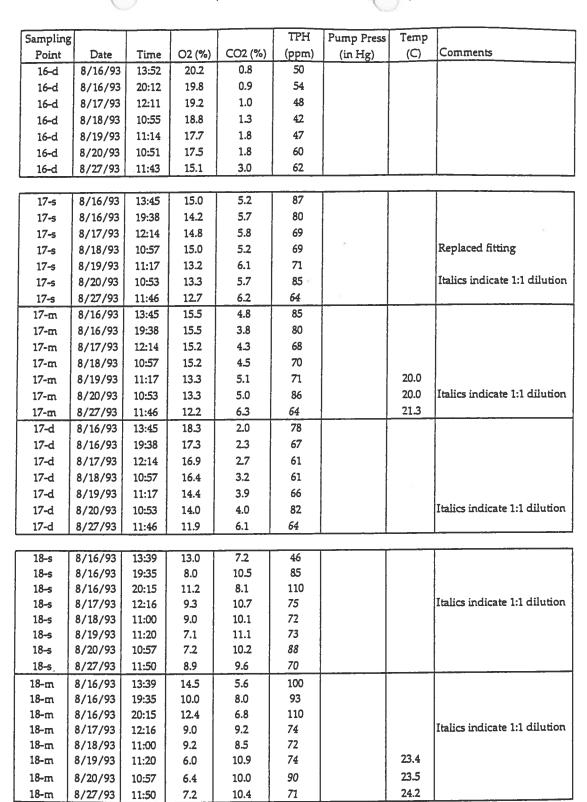
Sampling					TPH	Pump Press	Temp	· ·
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
8-d	8/16/93	14:37	19.5	1.8	130			
8-d	8/16/93	1	18.3	2.2	82			
8-d	8/17/93	1	16.7	3.5	85	1		
8-d	8/18/93	ì	17.4	2.9	57	i		
8-d	8/19/93	12:04	15.0	3.9	66			
8-d	8/20/93	11:44	15.0	3.7	70	1 1		
8-d	8/27/93	12:42	14.9	3.8	64	0.2		
9-3	8/16/93	14:33	20.2	0.8	110			
9-s	8/16/93	20:57	19.2	1.7	72			
9-5	8/17/93	12:39	19.1	2.3	59			Couple to be replaced
9-5	8/18/93	11:37	19.3	1.8	48	100		
9-s	8/19/93	12:06	18.5	2.1	56			
9 -s	8/20/93	11:46	18.7	1.7	60			
9-s	8/27/93	12:46	18.8	1.6	58			
9-m	8/16/93	14:33	20.3	0.8	96			
9-m	8/16/93	20:57	20.0	1.0	54	ĺ		
9-m	8/17/93	12:39	19.1	1.2	45			
9-m	8/18/93	11:37	19.4	1.1	38			
9-m	8/19/93	12:06	18.2	1.2	45		19.7	
9-m	8/20/93	11:46	18.4	1.1	49		20.4	
9-m	8/27/93	12:46	17.9	1.3	54		21.4	
	8/16/93	14:33	20.4	0.7	100			
,	8/16/93	20:57	20.2	0.8	44	1		C111
	8/17/93	12:39	19.5	0.8	39			Couple to be replaced
	8/18/93	11:37	19.6	0.8	28			
- 1	8/19/93	12:06	18.6	0.9	35			
	8/20/93	11:46	19.0	0.8	36			
3-a	8/27/93	12:46	18.0	1.1	49			
10-s	8/16/93	14:00	16.3	4.4	86			
1	8/16/93	20:30	15.0	5.5	88	0		
	8/17/93	12:33	15.5	5.8	41			
- 1	8/18/93	11:24	15.7	4.7	61			
	8/19/93	- 1	- 1					
		11:37	14.6	5.5	68			
	8/20/93	11:15	14.8	4.9	82			
	8/27/93	12:10	15.4	4.9	58			
10-m	8/16/93	14:00	16.0	4.7	86			
10-m	8/16/93	20:30	14.8	5.0	90			
10-m	8/17/93	12:33	14.1	6.0	92			
10-m	8/18/93	11:24	14.4	5.2	64			Italics indicate 1:1 dilution
	8/19/93	11:37	12.7	6.2	64	-	20.2	
	8/20/93	11:15	12.8	5.8	79		19.4	
1			1		i			
10-m	8/27/93	12:10	13.2	6.2	56	1	20.9	

Sampling		I			TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
10-d	8/16/93	14:00	17.6	2.7	84			
10-d	8/16/93	20:30	15.5	3.8	88	1 1		
10-d	8/17/93	12:33	13.9	4.9	92			Ì
10-d	8/18/93	11:24	13.8	4.8	62	1		
10-d	8/19/93	11:37	11.6	6.2	63			Italics indicate 1:1 dilution
10-d	8/20/93	11:15	11.8	6.0	78			
10-d	8/27/93	12:10	12.0	6.8	60	1		
11-s	8/16/93	14:06	10.1	7.3	82			
11-s	8/16/93	17:43	8.2	<i>7</i> .9	100	!		
11-s	8/16/93	19:21	4.5	10.5	70		**	
11-s	8/16/93	19:58	6.8	9.5	87			
11-s	8/17/93	10:23	10.1	9.4	71			
11-s	8/17/93	16:55	10.5	8.2	87			Italics indicate 1:1 dilution
11-s	8/18/93	9:52	12.5	4.8	67	[
11-s	8/19/93	11:35	9.2	6.8	60			
11-s	8/20/93	11:13	9.5	6.8	80			
11-s	8/27/93	12:08	12.7	6.2	60	[
11-m	8/16/93	14:06	8.5	8.8	72			
11-m	8/16/93	17:43	4.8	10.8	100			
11-m	8/16/93	19:21	0.0	15.3	60			
11-m	8/16/93	19:58	2.1	14.0	82			
11-m	8/17/93	10:23	2.5	15.0	64)
11-m	8/17/93	16:55	1.2	14.0	92			Italics indicate 1:1 dilution
11-m	8/18/93	9:52	2.2	14.0	80			
11-m	8/19/93	11:35	1.3	15.2	64		21.5	
11-d	8/16/93	14:06	2.2	9.5	65			
11-d	8/16/93	17:43	0.0	10.0	72			
11-d	8/16/93	19:58	2.2	9.0				
11-d	8/17/93	10:23	0.0	13.1	44			
11-d	8/17/93	16:55	0.0	11.9	93			Italics indicate 1:1 dilution
11-d	8/18/93	9:52	0.8	12.0	86			1
12-s	8/16/93	14:11	17.3	3.4	74			
12-5	8/16/93	20:27	17.5	3.2	86			
12-s	8/17/93	12:31	17.0	3.9	76			
12-s	8/18/93	11:21	17.0	3.3	60			
12-s	8/19/93	11:32	15.5	3.7	56			
12-s	8/20/93	11:09	15.5	3.3	78			Italics indicate 1:1 dilution
12-s	8/27/93	12:03	12.5	4.1	54	31		
	8/16/93	14:11	18.0	2.8	74			
	8/16/93	20:27	17.0	3.3	86			
	8/17/93	12:31	16.1	4.0	<i>7</i> 5			
- 1	8/18/93	11:21	15.8	3.9	63			
- 1	8/19/93	11:32	14.2	4.2	59		22.0	lt
1	8/20/93	11:09	14.3	3.9	76		21.1	Italics indicate 1:1 dilution
12-m	8/27/93	12:03	11.2	4.6	56		22.3	

				TPH	Pump Press	Temp	
Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
8/16/93	14:11	18.0	2.6	73			1
8/16/93	20:27	17.5	2.8	84			
8/17/93	12:31	15.5	3.8	ı	1 1		
8/18/93	11:21	15.0		1			
8/19/93	11:32	\$		ı			
	1						Italics indicate 1:1 dilution
8/27/93	12:03	10.0	5.3	58			<u> </u>
9 /16 /03	14.15	15.5	6.5	71			1
*	l :				i		
				!			Italics indicate 1:1 dilution
1	l .			t	(4)		
				ł			
	í I	1 1		83]		
- 1	11:59	7.7	8.2	62			
8/16/93	14:15	14.0	4.5	<i>7</i> 5			
8/16/93	20:25	14.0	5.8	90			
8/17/93	12:28	10.0	8.3	82			Italics indicate 1:1 dilution
8/18/93	11:16	9.0	7.8	67			
8/19/93	11:28	5.6	9.3	65		23.2	
8/20/93	11:06	5.8	8.5	83			
-	11:59					23.3	
8/16/93	14:15	18.5					
8/16/93	20:25	18.2	2.3	76			
8/17/93	12:28	15.2	3.0	72			
8/18/93	11:16	13.0	2.2	60			
8/19/93	11:28	9.5	3.6	47			Fitting to be replaced
8/20/93	11:06	8.5	3.7	64	1		Italics indicate 1:1 dilution
8/27/93	11:59	7.0	6.0	59			
8/16/93	14:22	18.2	3.2	70			
8/16/93	20:22	18.2	2.8	86			
8/17/93	12:24	17.6	3.3	72			100
8/18/93	11:14	17.3	3.4	62			
8/19/93	11:26	16.4	3.5	60			
	11:04	I	3.4	76			
- 1		15.8	3.5	60			
			2.9	71	1.0		
1	1	I		86			
		- 1		<i>7</i> 3			
		I					
	- 1	- 1				19.6	
1	1	1	1				
1	- 1	1					
	8/16/93 8/16/93 8/16/93 8/19/93 8/20/93 8/27/93 8/27/93 8/16/93 8/16/93 8/19/93 8/19/93 8/16/93 8/16/93 8/16/93 8/16/93 8/16/93 8/16/93 8/16/93 8/16/93 8/16/93 8/19/93 8/16/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93 8/19/93	8/16/93 14:11 8/16/93 20:27 8/17/93 12:31 8/18/93 11:21 8/19/93 11:32 8/20/93 12:03 8/16/93 12:23 8/16/93 12:23 8/16/93 12:28 8/18/93 11:16 8/19/93 11:28 8/20/93 11:06 8/27/93 12:28 8/16/93 14:15 8/16/93 14:15 8/16/93 12:28 8/18/93 11:16 8/19/93 11:28 8/20/93 11:06 8/27/93 12:28 8/16/93 20:25 8/17/93 12:28 8/16/93 12:28 8/16/93 11:06 8/27/93 11:59 8/16/93 11:06 8/27/93 11:59 8/16/93 12:24 8/16/93 12:24 8/16/93 12:24 8/16/93	8/16/93 14:11 18.0 8/16/93 20:27 17.5 8/17/93 12:31 15.5 8/18/93 11:21 15.0 8/19/93 11:32 13.4 8/20/93 11:09 13.4 8/20/93 11:09 13.4 8/27/93 12:03 10.0 8/16/93 12:03 10.0 8/16/93 12:28 9.5 8/16/93 12:28 9.5 8/18/93 11:16 8.2 8/19/93 11:28 4.8 8/20/93 11:06 5.3 8/27/93 11:59 7.7 8/16/93 14:15 14.0 8/18/93 11:16 9.0 8/18/93 11:16 9.0 8/18/93 11:28 5.6 8/20/93 11:06 5.8 8/27/93 11:59 7.1 8/16/93 20:25 18.2 8/18/93 11:16 13.0 8/19/93 11:28 9.5 8/20/93 11:06	8/16/93 14:11 18.0 2.6 8/16/93 20:27 17.5 2.8 8/17/93 12:31 15.5 3.8 8/18/93 11:21 15.0 3.8 8/19/93 11:32 13.4 4.3 8/20/93 11:09 13.4 4.2 8/27/93 12:03 10.0 5.3 8/16/93 14:15 15.5 6.5 8/16/93 12:28 9.5 9.8 8/18/93 11:16 8.2 8.8 8/19/93 11:28 4.8 11.3 8/20/93 11:06 5.3 10.2 8/27/93 11:59 7.7 8.2 8/16/93 14:15 14.0 4.5 8/16/93 12:28 10.0 8.3 8/19/93 11:28 5.6 9.3 8/19/93 11:28 5.6 9.3 8/19/93 11:28 5.6 9.3 8/19/93 11:28 5.6 9.3 8/19/93 11:28 5.2 3.0	Date Time O2 (%) CO2 (%) (ppm) 8/16/93 14:11 18.0 2.6 73 8/16/93 20:27 17.5 2.8 84 8/17/93 12:31 15.5 3.8 75 8/18/93 11:21 15.0 3.8 60 8/19/93 11:32 13.4 4.3 58 8/20/93 11:09 13.4 4.2 77 8/27/93 12:03 10.0 5.3 58 8/16/93 12:28 9.5 9.8 85 8/16/93 12:28 9.5 9.8 85 8/18/93 11:16 8.2 8.8 67 8/19/93 11:28 4.8 11.3 66 8/19/93 11:28 4.8 11.3 66 8/19/93 11:28 4.8 11.3 66 8/16/93 14:15 14.0 4.5 75 8/16/93 12:28 10.0 8	Date Time O2 (%) CO2 (%) (ppm) (in Hg) 8/16/93 14:11 18.0 2.6 73 8/16/93 20:27 17.5 2.8 84 8/17/93 12:31 15.5 3.8 60 8/18/93 11:21 15.0 3.8 60 8/18/93 11:09 13.4 4.2 77 8/27/93 12:03 10.0 5.3 58 8/16/93 14:15 15.5 6.5 71 8/16/93 12:28 9.5 9.8 85 8/18/93 11:16 8.2 8.8 67 8/18/93 11:28 4.8 11.3 66 8/20/93 11:26 5.3 10.2 83 8/27/93 11:25 7.7 8.2 62 8/16/93 14:15 14.0 4.5 75 8/16/93 12:28 10.0 8.3 82 8/20/93 11:06 <t< td=""><td> Date Time O2 (%) CO2 (%) (ppm) (in Hg) (C) </td></t<>	Date Time O2 (%) CO2 (%) (ppm) (in Hg) (C)

В	8-93)

Sampling	,				TPH	Pump Press	Temp	<u> </u>
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
14-d	8/16/93	14:22	18.9	2.4	95	((-)	
14-d	8/16/93	20:22	18.3	2.5	85	1 1		
14-d	8/17/93	12:24	17.0	3.0	75			
14-d	8/18/93	11:14	16.5	3.4	60	[
14-d	8/19/93	11:26	14.9	3.7	62	! !		
14-d	8/20/93	11:04	14.8	3.7	79			
14-d	8/27/93	11:57	13.4	4.1	60			
15-s	8/16/93	13:56	18.2	2.2	78			
15-s	8/16/93	20:09	18.8	2.3	80			
15-s	8/17/93	12:09	19.1	2.3	63			
15-s	8/18/93	10:51	19.2	2.1	50	1360		
15-s	8/19/93	11:12	18.8	2.3	55	[
15-s	8/20/93	10:48	18.2	2.1	65	{		
15 -s	8/27/93	11:40	18.1	2.2	58			
15-m	8/16/93	13:56	19.0	2.2	80			
15-m	8/16/93	20:09	18.5	2.4	80 .	}		
15-m	8/17/93	12:09	18.5	2.6	66			
15-m	8/18/93	10:51	18.8	2.4	54			
15-m	8/19/93	11:12	18.0	2.8	59		18.0	
15-m	8/20/93	10:48	17.6	2.5	<i>7</i> 0		18.0	
15-m	8/27/93	11:40	17.0	2.9	62		19.1	
15-d	8/16/93	13:56	20.0	1.2	65			
15-d	8/16/93	20:09	19.4	1.3	65			
15-d	8/17/93	12:09	18.9	1.7	58	}		
15-d	8/18/93	10:51	19.0	1.8	48			
15-d	8/19/93	11:12	18.2	2.2	54			
15-d	8/20/93	10:48	17.8	2.0	64	}		
15-d	8/27/93	11:40	16.6	2.7	61			
			100	20				r
16-s	8/16/93	13:52	18.8	2.3	73			
16-s	8/16/93	20:12	18.2	0.0	82			
16-s	8/17/93	12:11	18.3	2.9	65			
16-s	8/18/93	10:55	18.2	2.8	58			
16-s	8/19/93	11:14	17.1	3.2	62	11		
16-s	8/20/93	10:51	17.0	3.0	73			
16-s	8/27/93	11:43	16.2	3.5	64			
16-m	8/16/93	13:52	19.5	1.4	66			
16-m	8/16/93	20:12	19.2	1.7	70			
16-m	8/17/93	12:11	18.4	1.9	59			
16-m	8/18/93	10:55	18.2	1.1	52			
16-m	8/19/93	11:14	17.2	2.5	57		17.7	
16-m	8/20/93	10:51	17.0	2.3	69		17.6	
16-m	8/27/93	11:43	15.1	3.5	64		18.6	



Sampling					TPH	Pump Press	1 -	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
18-d	8/16/93	1	17.8	2.9	98	i		
18-d	8/16/93	1	14.9	3.8	86			
18-d	8/16/93	1	18.7	3.6	100			
18-d	8/17/93	1	12.0	4.9	63			Italics indicate 1:1 dilution
18-d	8/18/93		11.2	5.3	64		ĺ	
18-d	8/19/93	1	7.1	7.2	68			
18-d	8/20/93	1	7.2	7.5	85			
18-d	8/27/93	+	7.0	9.8	70			
19-s	8/16/93	I	17.0	4.0	90			
19-s	8/16/93	1	16.3	4.2	100	1		
19 - s	8/17/93	1	14.5	4.9	125	125		Couple to be replaced
19-s	8/18/93		14.0	4.8	72			
19-s	8/19/93	11:23	11.0	5.8	58			Italics indicate 1:1 dilution
19-s	8/20/93	11:00	11.0	5.5	75	<u> </u>		
19-s	8/27/93	11:54	9.1	6.9	64			
19-m	8/16/93	13:35	19.0	2.2 2.6	80 90	<u> </u>		
19-m 19-m	8/16/93	20:19	17.8 _. 15.2	3.3	125			Replace fitting
19-m	8/17/93	11:02	14.0	3.9	70	ļ		Replace Intuity
19-m 19-m	8/18/93	11:02	10.9	4.8	54		20.8	Italics indicate 1:1 dilution
19-m	8/19/93	11:00	10.5	4.8	72		20.4	Trancs marcate 1.1 dilutori
19-m	8/20/93 8/27/93	11:54	8.2	6.7	64		21.9	
19-d	8/16/93	13:35	19.8	1.0	. 65		21.7	
19-d	8/16/93	20:19	19.3	1.2	63			
19-d	8/17/93	12:20	17.3	1.7	110			
19-d	8/18/93	11:02	16.0	2.4	60			
19-d	8/19/93	11:23	12.9	3.2	44			Italics indicate 1:1 dilution
19-d	8/20/93	11:00	12.0	3.5	62			
19-d	8/27/93	11:54	8.9	5.8	62			
	., ,							1
20-s	8/16/93	12:46	20.0	1.0	60			
20-s	8/16/93	20:06	20.0	1.2	58			
20-s	8/17/93	12:07	19.0	1.0	48	1		
20-s	8/18/93	10:48	20.0	1.0	34	ľ		
20-s	8/19/93	11:09	19.9	1.0	38			
20-s	8/20/93	10:45	19.2	1.0	45			
20-s	8/27/93	11:37	19.5	1.1	46			
20-m	8/16/93	12:46	19.0	0.8	46			
20-m	8/16/93	20:06	20.0	0.8	41			
20-m	8/17/93	12:07	19.0	0.8	37			
20-m	8/18/93	10:48	20.0	0.8	25			
1	8/19/93	11:09	19.6	0.8	29		16.6	
	8/20/93	10:45	19.0	0.8	37		16.8	
- 1	8/27/93	11:37	18.8	1.0	44	0.3	17.9	

Sampling		Γ	Γ	<u> </u>	TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
20-d	8/16/93	12:46	20.5	0.5	30	(11(118)	(0)	
20-d	8/16/93	20:06	20.5	0.6	20	{		
20-d	8/17/93	12:07	20.5	0.5	25			
20-d	8/18/93	10:48	20.3	0.7	12			
20-d	8/19/93	11:09	19.8	0.6	14	i l		
20-d	8/20/93	10:45	19.2	0.6	20			[
20-d	8/27/93	11:37	18.2	0.9	41	ļ		
	7 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					11	· · · · ·	<u> </u>
21-5	8/16/93	12:42	19.5	1.3	60			
21-s	8/16/93	20:02	19.2	1.7	60			
21-s	8/17/93	12:04	19.5	1.5	76	я		Couple to be changed
21-s	8/18/93	10:45	19.8	1.2	41	(#		
21-s	8/19/93	11:06	19.3	1.4	44			
21 - s	8/20/93	10:42	18.8	1.2	52			
21-s	8/27/93	11:34	19.2	1.3	50			
21-m	8/16/93	12:42	20.2	0.7	54			
21-m	8/16/93	20:02	19.6	1.0	50	İ		
21-m	8/17/93	12:04	19. <i>7</i>	0.9	66			
21-m	8/18/93	10:45	19.8	0.9	34			
21-m	8/19/93	11:06	19.2	0.9	36		17.5	
21-m	8/20/93	10:42	18.7	0.9	44		17.8	
21-m	8/27/93	11:34	18.6	1.1	46	0.4	19.0	
21-d	8/16/93	12:42	20.2	0.6	30			
21-d	8/16/93	20:02	20.4	0.7	25			
21-d	8/17/93	12:04	20.1	0.5	56			
21-d	8/18/93	10:45	20.4	0.7	17			
21-d	8/19/93	11:06	19.9	0.6	15			
21-d	8/20/93	10:42	19.2	0.6	22	İ		
21-d	8/27/93	11:34	18.1	0.9	37			
20	0.416.400	10.05	160	20	70	1		
22-5	8/16/93	12:35	16.3	3.8	78 78	1		
22-s	8/16/93	19:43	15.7	4.0	78			
22-s	8/17/93 8/18/93	12:02	17.0	4.2 3.1	74	•		
22-s 22-s	8/19/93	10:45 11:04	17.2 16.3	4.0	66			
22-s	8/20/93	10:39	15.8	3.6	77			
22-s	8/27/93	11:31	15.7	3.6	63			
	8/16/93				60			
22-m		12:35	19.6	1.8				
22-m	8/16/93	19:43	18.2	1.8	60			
22-m	8/17/93	12:02	17.9	2.2	67			
22-m	8/18/93	10:45	17.7	1.8	67			
22-m	8/19/93	11:04	16.2	2.9	58		17.8	
22-m	8/20/93	10:39	15.8	2.7	70		17.6	
22-m	8/27/93	11:31	14.2	3.4	61		18.9	

Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
22-d	8/16/93	12:35	20.0	0.8	30			
22-d	8/16/93	19:43	19.9	0.8	28			
22-d	8/17/93	12:02	19.2	0.8	47			
22-d	8/18/93	10:45	18.8	0.8	45			
22-d	8/19/93	11:04	17.7	1.2	40			
22-d	8/20/93	10:39	16.8	1.3	53			
22-d	8/27/93	11:31	14.2	2.9	57		 .	
								· · · · · · · · · · · · · · · · · · ·
23-s	8/16/93	12:31	18.0	2.9	65			
23-5	8/16/93	19:31	18.0	3.0	74			
23-s	8/17/93	12:00	18.5	2.3	62	3 1		
23-5	8/18/93	10:39	18.1	2.0	64			
23-5	8/19/93	11:01	17.3	2.8	58 <i>7</i> 0			
23-s	8/20/93	10:37	16.3	2.7 3.5	68			
23-s	8/27/93	11:27 12:31	14.7 19.5	1.2	54			
23-m 23-m	8/16/93 8/16/93	19:31	19.0	1.5	56			
23-m	8/17/93	12:00	19.0	1.4	58			
23-m	8/18/93	10:39	18.5	0.9	53	}		
23-m	8/19/93	11:01	17.0	1.6	43		19.3	
23-m	8/20/93	10:37	15.6	1.5	52		19.0	
23-m	8/27/93	11:27	12.0	2.8	53	0.8	20.5	
23-d	8/16/93	12:31	20.2	0.7	30			
23-d	8/16/93	19:31	20.0	0.7	36			
23-d	8/17/93	12:00	19.0	0.8	44			
23-d	8/18/93	10:39	18.0	0.7	43			
23-d	8/19/93	11:01	16.0	1.2	40			
23-d	8/20/93	10:37	14.5	1.7	55			
23-d	8/27/93	11:27	10.4	4.0	68			
24-s	8/16/93	12:26	16.5	4.2	82			
2 4-s	8/16/93	19:16	14.0	5.8	140			
24-s	8/17/93	11:58	15.4	5.2	<i>7</i> 9			
2 4-s	8/18/93	10:35	15.0	4.4	<i>7</i> 8			
24-5	8/19/93	10:57	12.8	5.8	66			Italics indicate 1:1 dilution
24-3	8/20/93	10:34	11.7	5.0	76			
		i	1		64			
24-3	8/27/93	11:24	12.6	5.1				
24-m	8/16/93	12:26	17.5	3.3	77			
24-m	8/16/93	19:16	16.2	3.9	130			
24-m	8/17/93	11:58	16.5	3.6	<i>7</i> 5			
24-m	8/18/93	10:35	15.0	3.5	76			
24-m	8/19/93	10:57	12.0	4.7	60		18.7	Italics indicate 1:1 dilution
24-m	8/20/93	10:34	10.9	4.6	73		18.5	
24-m	8/27/93	11:24	9.3	5.9	66		20.2	

Sampling			T		TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
24-d	8/16/93	12:26	19.5	1.0	51			
24-d	8/16/93	19:16	18.8	1.7				İ
24-d	8/17/93	11:58	17.9	2.0	63			
24-d	8/18/93	10:35	16.2	2.2	67			
24-d	8/19/93	10:57	13.0	3.6	52			Italics indicate 1:1 dilution
24-d	8/20/93	10:34	11.5	3.8	64			
24-d	8/27/93	11:24	9.0	5.6	65			
25-s	8/16/93	11:53	19.2	2.0	73			
25-s	8/16/93	18:40	19.8	1.4	76			
25-s	8/17/93	11:51	18.2	1.4	71	0		
25-s	8/18/93	10:26	19.4	1.6	55 57			
25-s	8/19/93	10:42	19.0	2.2 ···· 2.5	57 69			
25-s 25-s	8/20/93	9:41 11:06	18.9 19.1	2.0	49			
25-m	8/27/93 8/16/93	11:53	20.6	0.7	50			
25-m	8/16/93	18:40	20.8	0.5	52			
25-m	8/17/93	11:51	20.0	0.8	50			
25-m	8/18/93	10:26	20.0	0.7	33			
25-m	8/19/93	10:42	19.6	0.8	33		15.7	
25-m	8/20/93	9:41	19.6	0.9	40	Ì	14.6	
25-m	8/27/93	11:06	19.5	0.7	1	5.4	16.9	
25-d	8/16/93	11:53	20.8	0.6	26			
25-d	8/16/93	18:40	20.8	0.6	20			
25-d	8/17/93	11:51	20.7	0.6	31	}		
25-d	8/18/93	10:26	20.5	0.5	12			
25-d	8/19/93	10:42	20.1	0.6	14			
25-d	8/20/93	9:41	20.1	0.7	18			
25-d	8/27/93	11:06	19.5	0.7	14			
					*			
26-s	8/16/93	11:56	20.0	0.9	120			7-27
26-s	8/16/93	18:43	20.2	0.8	40			
26-s	8/17/93	11:54	20.0	1.1	57			
26-s	8/18/93	10:29	19.8	0.8	54 45			
26-s	8/19/93	10:45	19.4	1.3	45 52			
26-s 26-s	8/20/93	9:49	19.2	1.3 1.4	52 41			
	8/27/93	11:10	19.2		40	31		
26-m	8/16/93	11:56	20.5	0.7				
26-m	8/16/93	18:43	20.5	0.7	30	ļ		
26-m	8/17/93	11:54	20.2	0.8	39	İ		
26-m	8/18/93	10:29	20.0	0.6	35			
26-m	8/19/93	10:45	19.5	0.8	23		16.4	
26-m	8/20/93	9:49	19.2	0.7	28	ļ	15.8	
26-m	8/27/93	11:10	18.8	1.0	30		17.8	

Sampling			Ī		TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
26-d	8/16/93	11:56	20.5	0.7	26	(2.118)		
26-d	8/16/93	18:43	20.8	0.6	20	1		
26-d	8/17/93	11:54	20.5	0.7	37			
26-d		10:29	20.2	0.6	36	[]		
	8/18/93		19.7	0.7	21			
26-d	8/19/93	10:45			26			
26-d	8/20/93	9:49	19.2	0.7				
26-d	8/27/93	11:10	18.6	1.0	33			
27-s	8/16/93	11:59	9.4	5.0	120			
27-s	8/16/93	19:06	9.2	8.5	120			
27-s	8/17/93	11:56	13.0	7.5	76			
27-s	8/18/93	10:32	13.5	5.5	83	Si		
27-s	8/19/93	10:48	11.4	6.7	66			Italics indicate 1:1 dilution
27-s	8/20/93	10:00	11.0	6.2	72 =			
	8/27/93	11:14	12.4	6.2	61			
	8/16/93	11:59	15.2	4.4	120			
	8/16/93	19:06	10.5	6.8	120			
I	8/17/93	11:56	10.4	6.8	76			
	8/18/93	10:32	9.8	6.0	78			Italics indicate 1:1 dilution
	8/19/93		6.8	7.9	68		19.2	Times marche 1.1 and told
1	· · · I	10:48	5.2	8.7	78		18.6	į
	8/20/93	10:00	- 1	- 1	68		20.3	
	8/27/93	11:14	8.0	8.7	110		20.3	
	8/16/93	11:59	13.2	1.9	- 1			
i	8/16/93	19:06	15.3	3.2	110			
1	8/17/93	11:56	12.6	4.5	76			 Italics indicate 1:1 dilution
I .	8/18/93	10:32	10.8	4.8	74			litalics indicate 1.1 dilution
,	8/19/93	10:48	7.7	7.0	67			
	8/20/93	10:00	6.0	7.6	77			
27-d	8/27/93	11:14	7.4	8.9	68			
28-s	8/16/93	12:10	6.0	9.8	80			
	8/16/93	19:10	0.0	16.8	110			
	8/16/93	19:54	1.8	13.0	110			
,			6.9	13.7	87			
1	8/17/93	10:19		1	1	İ		 Italics indicate 1:1 dilution
	8/17/93	16:50	6.9	11.5	95	1		Hanes mulcate 1:1 unution
1	8/18/93	9:44	7.5	11.2	68			
	8/19/93	10:51	6.6	12.6	74		0.5	
	8/20/93	10:15	4.5	12.2	60			
	8/27/93	11:18	6.5	7.9	68 70			
	8/16/93	12:10	0.0	19.0	100			
	8/16/93 8/16/93	19:10 19:54	0.0	13.9	100			
	8/17/93	19:54	1.2	16.3	80			
,	8/17/93	16:50	1.1	14.4	96			Italics indicate 1:1 dilution
	8/18/93	9:44	3.2	14.0	70			
	8/19/93	10:51	1.3	16.3	72		20.8	

Sampling	_	Υ -	T .	T	TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
28-d	8/16/93		7.0	7.0	74	(201-6)	(0)	
28-d	8/16/93	19:10	0.0	19.5	110			
28-d	8/16/93	19:54	0.0	9.0		=		
28-d	8/17/93	10:19	0.0	11.1	86			Italics indicate 1:1 dilution
28-d	8/17/93	16:50	0.0	10.0	91			
29-s	8/16/93	12:16	12.2	6.8	50			
29-5	8/16/93	17:34	12.0	6.0	88			
29-s	8/16/93	19:13	5.8	10.5				
29-s	8/16/93	19:48	9.5	7.7	82			
29-s	8/17/93	10:15	9.2	9.9	91			
29-s	8/17/93	16:47	8.6	9.3	110	1040		Italics indicate 1:1 dilution
29-5	8/18/93	9:47	7.5	9.3	60∙			
29-s	8/19/93	10:54	4.8	10.8	71			
29-s	8/20/93	10:32	4.0	10.2	85			
29-5	8/27/93	11:21	8.5	8.5	80		·	
29-m	8/16/93	12:16	11.0	7.0	85		·	
29-m	8/16/93	17:34	9.6	<i>7</i> .0	90			
29-m	8/16/93	19:13	2.2	11.8	110			
29-m	8/16/93	19:48	7.1	8.5	83			
29-m	8/17/93	10:15	4.6	10.9	92			
29-m	8/17/93	16:47	3.7	10.2	110			Italics indicate 1:1 dilution
29-m	8/18/93	9:47	2.8	10.5	62			
29-m	8/19/93	10:54	0.8	12.4	71		21.5	
29-d	8/16/93	12:16	17.0	2.0	48			
29-d	8/16/93	17:34	16.5	1.8	98			
29-d	8/16/93	19:13	11.0	3.8				
29-d	8/16/93	19:48	12.7	3.3	90			
29-d	8/17/93	10:15	4.0	7.8	105			
29-d	8/17/93	16:47	2.3	8.5	105			Italics indicate 1:1 dilution
29-d	8/18/93	9:47	1.0	10.2	63			
	0 to c 105 1	·			50	· 1		
30-s	8/16/93	11:47	20.4	0.8	50			
30-s	8/16/93	18:36	20.5	0.8	46			
30-s	8/17/93	11:48	19.5	1.1	40			
30-s	8/18/93	10:23	20.5	0.8	61			
30-s	8/19/93	10:39	20.0	0.9	34			
30-s	8/20/93	9:40	19.8	1.0	39			
30-s	8/27/93	11:03	20.0	0.8	36			
30-m	8/16/93	11:47	20.5	0.5	43			
30-m	8/16/93	18:36	21.0	0.6	40			
30-m	8/17/93	11:48	20.0	0.8	40			
30-m	8/18/93	10:23	20.2	0.7	30		16.4	
30-m	8/19/93	10:39	19.9	0.8	30		15.6	
30-m	8/20/93	9:40	20.0	0.8	3 <u>4</u>	55	18.0	
30-m	8/27/93	11:03	18.9	0.6	7	5.5	10.0	

						γ		
Sampling	1			1	TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
30-d	8/16/93	11:47	19.7	0.9	56			
30-d	8/16/93	18:36	19.5	1.2	30			
30-d	8/17/93	11:48	18.8	1.5	47			
30-d	8/18/93	10:23	20.0	1.0	70			
30-d	8/19/93	10:39	19.7	1.0	40	=		
30-d	8/20/93	9:40	19.8	1.3	48			
30-d	8/27/93	11:03	19.5	0.9	35			
31-s	8/16/93	11:40	20.5	0.6	50			
31-s	8/16/93	18:31	20.5	0.8	50			
31-s	8/17/93	11:44	20.7	0.9	42			
31-s	8/18/93	10:20	20.5	0.8	32	'		
31-s	8/19/93	10:36	20.5	0.8	31			
31-s	8/20/93	9:36	20.5	0.8	34			
31-s	8/27/93	10:55	20.4	0.7	27			
31-m	8/16/93	11:40	20.0	0.7	40			
31-m	8/16/93	18:31	19.0	0.7	44	}		
31-m	8/17/93	11:44	19.8	0.8	45			
31-m	8/18/93	10:20	20.0	0.7	25	1		
31-m	8/19/93	10:36	19.9	0.8	30		15.7	
31-m	8/20/93	9:36	20.0	0.8	28		15.4	
31-m	8/27/93	10:55	20.9	0.3		13.4	17.3	
31-d	8/16/93	11:40	20.0	1.2	60			
31-d	8/16/93	18:31	19.8	1.2	62	1		
31-d	8/17/93	11:44	19.8	1.5	44			
31-d	8/18/93	10:20	19.7	1.2	42			
31-d	8/19/93	10:36	19.5	1.1	42			
1 1	I	9:36	19.5	1.3	49			
31-d	8/20/93	- 1		0.9	37			
31-d	8/27/93	10:55	19.4	0.9	3/			<u> </u>
32-s	8/16/93	11:25	21.0	0.3	90	T		HC Odor
32-s	8/16/93	18:18	21.0	0.3	,,			
32-s	8/27/93	10:52	19.7	0.8	74	13.0		
32-m	8/16/93	11:25	4.5	13.0	190	10.0	·	
32-m	8/16/93	18:18	3.7	13.0	280			
32-m	8/17/93	11:38	4.4	13.9	120			 Italics indicate 1:1 dilution
, ,			- 1		98			The state of the s
32-m	8/17/93	16:42	5.3	13.5				1
32-m	8/18/93	9:41	7.0	12.0	130		170	
32-m	8/19/93	10:32	5.9	14.4	72		17.9	
32-m	8/20/93	9:34	5.7	14.1	83	22	17.3	
32-m	8/27/93	10:52	10.9	8.5	58	2.3	19.4	
32-d	8/16/93	11:25	3.2	14.5	4800			
32-d	8/16/93	18:18	0.0	20.2	4500			Tenting in diames 4.4 dilection
32-d	8/17/93	11:38	0.0	19.2	2000			Italics indicate 1:1 dilution
32-d	8/17/93	16:42	0.0	18.4	2000			L

Sampling	Sampling		T	Γ		TOLI	Puese Bassal	Toma	T
33-8 8/16/93 11:11 9.5 9.5 72 33-8 8/17/93 11:33 11.6 10.8 95 33-8 8/17/93 16:40 11.6 10.2 100 33-8 8/18/93 937 11.3 95 76 33-8 8/18/93 930 12.0 8.9 85 33-8 8/18/93 930 12.0 8.9 85 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 67 33-8 8/18/93 11:11 7.0 10.0 9.6 77 33-8 8/18/93 10:47 10.0 9.6 77 33-8 8/18/93 10:47 10.0 9.6 77 33-8 8/18/93 10:47 10.0 9.6 77 33-8 8/18/93 10:47 10.0 9.6 77 33-8 8/18/93 10:47 10.0 9.6 77 33-8 8/18/93 10:47 10.0 9.6 77 33-8 8/18/93 10:47 10.0 9.6 77 33-8 8/18/93 10:49 8.9 0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	1 -	1 _		~ (%)	CO2 (%)		, , ,	-	6
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34-s 8/16/93 17:26 17.0 4.0 91 34-s 8/17/93 11:28 13.7 6.0 83 34-s 8/18/93 10:16 12.3 5.8 70 Italics indicate 1:1 dilution 34-s 8/19/93 10:25 9.9 7.5 55 34-s 8/20/93 9:26 7.8 8.5 84 34-s 8/27/93 10:35 7.0 11.4 73 22.0 34-m 8/16/93 17:26 15.4 4.5 94 34-m 8/16/93 11:28 11.7 6.5 89 Italics indicate 1:1 dilution 34-m 8/18/93 10:16 10.2 6.5 73 34-m 8/20/93 9:26 6.0 9.0 87 20.3 34-m 8/20/93 9:26 6.0 9.0 87 20.3 20.9 34-d 8/16/93 11:06 15.5 2.3 70 20.3 20.9 34-d 8/16/93 10:16 9.0 5.9 70 70 34-d 8/18/93 10:16 <td></td> <td>2 12 4 12 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		2 12 4 12 2							
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34-d 8/19/93 10:25 6.3 7.7 55 34-d 8/20/93 9:26 4.2 8.9 84									Italics indicate 1:1 dilution
34-d 8/20/93 9:26 4.2 8.9 84					i i				
	34-d	8/27/93	10:40	4.5	11.1		0.3		

tu Respiration Test Data - FE Warren AFB (3)

		-						T
Sampling					TPH	Pump Press	Temp	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
1-s	11/15/93	15:25	12.0	7.5	90	9	6.8	
1-s	11/16/93	15:25	12.5	6.5	110	9		Blower shut down @ 6:07
1-s	11/17/93	13:10	13.0	7.0	110	9	5.8	
1-s	11/18/93	12:45	13.7	7.0	145	9		
1-s	11/19/93	12:15	14.0	7.0	97	12	4.8	
1-m	11/15/93	15:25	9.2	9.8	93	10	11.2	
1-m	11/16/93	15:25	9.5	8.5	120	9		
1-m	11/17/93	13:10	9.3	9.8	110	9	9	1:1 diluter was used for
1-m	11/18/93	12:45	10.3	9.4	140	9		TPH readings in italic
1-m	11/19/93	12:15	11.2	9.5	110	8	8.9	
1-d	11/15/93	15:25	7.0	11.0	98	10	14.2	
1-d	11/16/93	15:25	7.4	9.8	110	9	4.5	1:1 diluter was used for
1-d	11/17/93	13:10	7.0	11.5	110	9	11.9	TPH readings in italic
1-d	11/18/93	12:45	7.7	11.0	145 .	10		
1-d	11/19/93	12:15	9.2	10.5	125	10	11.7	\$
1.0	12,12,20							
2-s	11/15/93	16:00	17.0	4.5	96	9	6.5	
2-s	11/16/93	15:20	18.6	2.9	110	8		
2-s	11/17/93	12:30	18.2	3.5	84	10	6.4	
2-s 2-s	11/18/93	12:40	19.1	2.7	82	9	0	
2-s	11/19/93	12:20	18.2	3.3	78	10	5	
2-s 2-m	11/15/93	16:00	16.2	4.8	110	10	-	
2-m	11/15/93	15:20	16.5	4.3	110	9	_	
2-m	11/10/93	12:30	16.5	4.8	93	11	_	Thermo-couple off
1 1					1		_	Incimo coupio on
2-m	11/18/93	12:40	16.5	4.6	100	10	•	
2-m	11/19/93	12:20	16.5	4.8	98	9	12.0	
2-d	11/15/93	16:00	16.5	4.4	110	I	13.8	
2-d	11/16/93	15:20	14.8	5.3	130	10		
2-d	11/17/93	12:30	14.5	6.0	98	12	11.8	
2-d	11/18/93	12:40	14.2	6.2	140	10		7.
2-d	11/19/93	12:20	14.2	6.4	98	13	10.4	
							1	
3-s	11/15/93	15:50	18.7	2.4	80	9	8.4	
3-s	11/16/93	15:30	18.2	2.3	100	9		
3-s	11/17/93	12:25	17.8	2.8	74	9	7.1	
3-s	11/18/93	12:35	17.2	3.1	110	9		
3-s	11/19/93	12:55	16.5	3.3	87	10	5.3	
3-m	11/15/93	15:50	18.0	3.0	90	9	14	
3-m	11/16/93	15:30	17.5	2.8	100	9	-	
3-m	11/17/93	12:25	17.5	2.8	80	10	12	
3-m	11/18/93	12:35	17.2	3.2	112	10	-	
3-m	11/19/93	12:55	15.8	3.9	89	10	10.4	
3-d	11/15/93	15:50	17.0	3.9	110	10	15	-
3-d	11/16/93	15:30	17.0	3.4	120	9	}	
3-d	11/17/93	12:25	16.6	3.9	96	10	13	
3-d	11/18/93	12:35	16.1	4.2	98	10		
3-d	11/19/93	12:55	15.7	4.3	98	10	11.2	

In situ Respiration Test Data - FE Warre B (

		In s	itu Kespira	tion Test Da	ta - FE Wa	в (11-	-93)	
Sampling	·				TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)			(in Hg)	(C)	Comments
4-s	11/15/93	15:55	19.3	1.9	72	9	9.5	
4-s	11/16/93	15:10	18.8	2.0	90	19	İ	Blower shut down @ 6:0
4-s	11/17/93	12:15	17.8	1.6	75	9	8.5	
4-s	11/18/93	12:15	16.6	2.8	120	9	1	
4-s	11/19/93	13:00	15.0	3.1	83	8	6.3	
4-m	11/15/93	15:55	18.5	2.7	90	12	16.1	
4-m	11/16/93	15:10	18.0	2.4	100	11		
4-m	11/17/93	12:15	16.5	3.0	80	8	14.5	
4-m	11/18/93	12:15	14.7	3.4	125	11	1	
4-m	11/19/93	13:00	12.5	4.0	90	11	11.9	
4-d	11/15/93	15:55	18.5	2.6	98	10	14.2	
4-d	11/16/93	15:10	17.2	2.8	110	9	1	
4-d	11/17/93	12:15	15.0	3.7	88	9	11.9	
4-d	11/18/93	12:15	12.3	4.5	135	10	1	1:1 diluter was used for
4-d	11/19/93	13:00	10.5	5.2	110	10	11.7	TPH reading in italic
							1 2411	,
5-s	11/15/93	15:15	19.5	1.5	46	8	6.4	
5-s	11/16/93	14:55	12.0	5.8	100	9		
5-s	16/16/93	16:10	12.1	5.8	110	9	5.8	1:1 diluter was used for
5-s	11/17/93	12:10	12.3	6.3	90	11	6.4	TPH readings in italic
5-s	11/18/93	12:10	12.2	6.5	110	8	0	11 11 toddings in hanc
5-s	11/19/93	12:15	13.0	6.2	110	8	4.6	
5-m	11/15/93	15:15	16.5	3.9	80	9	10	
5-m	11/16/93	14:55	6.0	8.4	110	10	8.4	
5-m	11/16/93	16:10	6.0	8.7	110	9	0.4	1:1 diluter was used for
5-m	11/17/93	12:10	6.9	9.0	97	11	9.7	TPH readings in italic
5-m	11/18/93	12:10	7.0	9.5	110	8	9.1	TEM leadings in liane
5-m	11/19/93	12:15	7.5	9.8	110	9	7.6	
5-d	11/15/93	15:15	12.5	6.5	92	6	13.8	
5-d	11/16/93			1	- 1		13.0	
5-d		14:55	2.2	11.0	110	10		1.1 411
5-d	11/16/93	16:10	2.5	11.0	110	10		1:1 diluter was used for
	11/17/93	12:10	2.5	11.5	98	12	11.8	TPH readings in italic
5-d	11/18/93	12:10	3.3	12.0	120	10		
5-d	11/19/93	12:15	3.0	13.6	110	13	10.4	
6-s	11/15/93	15:20	10.6	20	76	10	66	
6-s		15:30	19.5	2.0	76	10	6.6	
- 1	11/16/93	14:40	19.2	1.9	62	9		
6-s	11/17/93	11:55	18.5	2.3	72	9		1
6-s	11/18/93	12:00	17.7	2.5	80	11		
6-s	11/19/93	12:10	16.8	2.8	73	11	6.1	
6-m	11/15/93	15:30	19.7	1.3	77	· 12	15.4	
6-m	11/16/93	14:40	18.4	2.3	68	11	-	
6-m	11/17/93	11:55	17.5	2.8	80	11	13.6	
6-m	11/18/93	12:00	16.1	3.3	92	15	-	j
6-m	11/19/93	12:10	15.5	3.5	85	14	12.3	
6-d	11/15/93	15:30	18.6	2.6	87	10	10.8	
6-d	11/16/93	14:40	17.5	2.8	79	9		
6-d	11/17/93	11:55	16.3	3.5	90	10	[
6-d	11/18/93	12:00	14.2	4.0	99	12		
6-d	11/19/93	12:10	14.2	4.3	94	11	8.8	

situ Respiration Test Data - FE Warren AFT

-93	. 1
-/-	

		31	1	1001.00	IA - FE WA		73)	
Sampling		_	02 (7)	000 (7)	TPH	Pump Press	Temp	122
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg) 15	(C)	Comments
7-s	11/15/93	16:30	20.0	1.5	60			Playershart
7-s	11/16/93	14:36	20.0	1.3	54	15		Blower shut down @ 6:07
7-s	11/17/93	11:35	19.8	1.5	60	15		
7-s	11/18/93	11:50	19.8	1.7	61	17		
7-s	11/19/93	12:10	19.0	1.8	55	19		
7-m	11/15/93	16:30	-	-	-	-	11.4	no flow
7-m	11/16/93	14:36	19.8	1.3	50	9		
7-m	11/17/93	11:35	19.6	1.6	60	10	9.1	
7-m	11/18/93	11:50	19.5	1.8	68	13		
7-m	11/19/93	12:10	19.2	2.1	59	12	11.4	
7-d	11/15/93	16:30	20.1	1.3	56	8		
7-d	11/16/93	14:36	19.8	1.3	52	10		
7-d	11/17/93	11:35	19.5	1.5	58	10		
7-d	11/18/93	11:50	19.0	1.9	67	14		
7-d	11/19/93	12:10	19.0	2.1	61	12	¥	
8-s	11/15/93	16:30	18.5	3.3	81	8		
8-s	11/16/93	14:33	18.8	2.9	80	8		
8-s	11/17/93	11:10	19.2	2.4	78	11		
8-s	11/18/93	11:35	19.2	2.8	78	12		
8-s	11/19/93	12:05	18.7	3.1	76	8		
8-m	11/15/93	16:30	18.8	3.2	86	9	13.3	
8-m	11/16/93	14:33	18.3	3.0	81	9	12.8	
8-m	11/17/93	11:10	18.3	3.0	90	11	12.4	
8-m	11/18/93	11:35	18.2	3.5	89	11		
8-m	11/19/93	12:05	18.2	3.6	84	8	13.9	
8-d	11/15/93	16:30	18.9	3.0	83	9		
8-d	11/16/93	14:33	18.3	3.1	80	9		
8-d	11/17/93	11:10	17.8	3.4	90	13		
8-d	11/18/93	11:35	17.8	3.6	87	10		
8-d	11/19/93	12:05	17.5	3.8	85	9		
*		<u> </u>						
9-s	11/15/93	16:40	20.5	0.8	43	8		
9-s	11/16/93	15:30	20.1	1.0	46	7		
9-s	11/17/93	11:05	19.8	1.2	44	11		
9-s	11/18/93	11:30	19.3	1.5	54	8		
9-s	11/19/93	11:35	19.2	1.5	50	8	· 1	
9-m	11/15/93	16:40	-	-	-	-		no flow
9-m	11/16/93	15:30	20.3	0.8	37	8	14.6	
9-m	11/17/93	11:05	19.8	0.9	37	10	12.6	
9-m	11/18/93	11:30	19.5	1.0	42	10	-	
9-m	11/19/93	11:35	19.1	1.1	. 45	10	12	
9-d	11/15/93	16:40	17.1	-		-		no flow
9-d	11/16/93	15:30	20.3	0.8	38	9		
9-d	11/10/93	11:05	19.8	0.8	40	13		
9-d	11/17/93	11:30	19.8	1.1	42	10		
- 1		,			1	14		
9-d	11/19/93	11:40	19.0	1.2	50	7.4		

In situ Respiration Test Data - FE Warre: (11-93)

		In sit	u Respirati	on Test Data				
Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
10-s	11/15/93	15:10	13.9	5.8	98	8		
10-s	11/16/93	13:25	13.5	5.7	85	9		
10-s	11/17/93	11:45	14.5	6.0	100	8		
10-s	11/18/93	12:10	14.3	6.3	130	11		
1 1	11/19/93	11:20	14.3	6.3	100	8		
10-s		15:10	12.8	6.8	96	8		no flow
10-m	11/15/93	13:25	13.0	6.2	87	9		
10-m	11/16/93		12.5	7.0	100	9	14.5	
10-m	11/17/93	11:45	12.7	6.8	140	9		
10-m	11/18/93	12:10		7.4	120	9	14.1	
10-m	11/19/93	11:20	12.8	6.0	97	10		
10-d	11/15/93	15:10	13.5		89	11		
10-d	11/16/93	13:25	12.8	6.5		11		
10-d	11/17/93	11:45	10.8	7.8	100	1		
10-d	11/18/93	12:10	10.8	8.2	140	11	-	with dilution
10-d	11/19/93	11:20	10.5	8.8	110	11		with dilution
11-s	11/15/93	15:00	16.0	4.7	91	12		
11-s	11/16/93	14:00	15.8	4.5	78	11		1
11-s	11/16/93	16:15	15.8	4.5	100	11		
11-s	11/17/93	11:40	15.3	4.8	95	9		
11-s	11/18/93	12:05	15.2	4.5	135	10		
11-s	11/19/93	11:25	15.0	4.6	95	8		
11-m	11/15/93	15:00	19.5	1.8	50	10		no flow
11-m	11/16/93	14:00	14.0	5.0	82	10		
	11/16/93	16:15	14.1	5.0	110	10	10	
11-m	11/17/93	11:40	12.0	6.0	92	11	10.8	with dilution
11-m		12:05	11.2	6.5	140	14		with dilution
11-m	11/18/93	11:25	11.4	6.5	100	14	10.9	
11-m	11/19/93		14.5	5.4	95	10		
11-d	11/15/93	15:00		7.0	95	9		with dilution
11-d	11/16/93	14:00	8.5		110	9		with dilution
11-d	11/16/93	16:15	8.5	7.2	99	10		with dilution
11-d	11/17/93	11:40	5.0	8.8		11		with dilution
11-d	11/18/93	12:05	0.5	11.8	140	11		
11-d	11/19/93							
					24	0		T T T T T T T T T T T T T T T T T T T
12-s	11/15/93	15:10	19.5	2.2	74	9		1
12-s	11/16/93	14:02	19.3	2.0	50	9		
12-s	11/17/93	11:15	19.1	2.2	74	10		
12-s	11/18/93	12:50	18.8	2.3	75	9		
12-s	11/19/93	11:30	18.5	2.4	74	8		
12-m	11/15/93	15:10	19.5	2.3	74	10	10.8	
12-m	11/16/93	14:02	19.0	2.0	55	9	11	
12-m	11/17/93	11:15	18.8	2.3	76	10	6.1	
12-m	11/18/93	12:50	18.2	2.5	80	10		
12-m	11/19/93	11:30	18.2	2.5	71	9	8.1	
12-iii	11/15/93	15:10	19.5	1.9	70	10		
	11/15/93	14:02	19.1	1.9	53	9		
12-d		11:15	18.5	2.4	76	10	1	
12-d	11/17/93	12:50	18.0	2.7	84	10	1	
12-d	11/18/93		1	2.7	80	10		
12-d	11/19/93	11:30	17.8	2.1	30			

u Respiration Test Data - FE Warren AFB (1)

		1	- Troopirac	on lest Date			7	1
Sampling		_			TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
13-s	11/15/93	14:55	18.4	3.1	80	10		
13-s	11/16/93	14:05	18.4	2.8	64	8		
13-s	11/17/93	11:15	17.6	3.2	88	11		
13-s	11/18/93	11:40	16.9	3.3	85	7.5		
13-s	11/19/93	11:30	16.3	3.4	86	8		
13-m	11/15/93	14:55	18.5	2.8	75	9	14.3	
13-m	11/16/93	14:05	18.3	2.8	63	9	16	
13-m	11/17/93	11:15	17.0	3.3	91	13	12.1	
13-m	11/18/93	11:40	16.2	3.5	87	8		
13-m	11/19/93	11:30	15.1	3.7	92	9	12.6	
13-d	11/15/93	14:55	19.8	1.3	60	9		
13-d	11/16/93	14:05	19.5	1.2	32	9		!
13-d	11/17/93	11:15	18.0	1.7	67	11		
13-d	11/18/93	11:40	16.8	2.0	67	9		
13-d	11/19/93	11:30	15.4	2.3	70	10		
,								
14-s	11/15/93	14:50	18.4	3.1	84	10		
14-s	11/16/93	14:10	18.5	2.9	63	9		
14-s	11/17/93	10:55	18.4	2.8	73	10		
14-s	11/18/93	11:25	17.8	3.3	84	12		
14-s	11/19/93	11:35	17.7	3.2	86	8		. 8)
14-m	11/15/93	14:50	18.9	2.5	80	10		
14-m	11/16/93	14:10	18.3	2.8	62	10	16.5	
14-m	11/17/93	10:55	17.5	3.3	78	12	10.1	
14-m	11/18/93	11:25	17.3	3.5	86	11		
14-m	11/19/93	11:35	17.1	3.5	92	9	12.8	
14-d	11/15/93	14:50	-	-		-	-	
14-d	11/16/93	14:10	18.5	2.3	56		-	
14-d	11/17/93	10:55	17.6	2.9	75	10	-	
14-d	11/18/93	11:25	17.2	3.3	83	10	-	
14-d	11/19/93	11:35	16.6	3.5	90	9		
14-0 1	11/17/73	11.55	10.0	3.5	70			· · · · · · · · · · · · · · · · · · ·
15-s	11/15/93	14:25	20.0	1.5	58	58		
15-s 15-s	11/16/93	13:10	20.2	1.4	40	40		
15-s 15-s	11/10/93	10:20	20.2	1.4	53	53		
15-s 15-s	11/17/93	10:25	19.8	1.7	56	56		
15-s 15-s	11/19/93	10:33	20.0	1.4	52	13		
	11/15/93	14:25	20.2	1.2	53	9	12.4	
15-m	11/15/93	13:10	20.2	1.1	35	9		
15-m	11/17/93	10:20	20.2	1.1	52	10	10	
15-m		10:20	19.8	1.5	64	8	10	
15-m	11/18/93			1.2	68	9	9.9	
15-m	11/19/93	10:45	20.0	0.7	16	9	7.3	
15-d	11/15/93	14:25	20.7		14	9		
15-d	11/16/93	13:10	20.5	0.7		10		
15-d	11/17/93	10:20	20.2	0.8	32	9		4
15-d	11/18/93	10:55	19.8	1.0	4.8			
15-d	11/19/93	10:45	20.0	0.9	45	13		

In situ Respiration Test Data - FE Warren AFB (1.3)

						Ten AFB (%		
Sampling	_				TPH	Pump Press	Temp	C
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
19-s	11/15/93	14:45	19.0	2.2	66	8		·
19-s	11/16/93	11:50	18.8	2.5	60	9		
19-s	11/17/93	10:50	17.0	3.0	76	11		
19 - s	11/18/93	11:15	15.7	3.3	85	10		
19-s	11/19/93	10:30	14.5	3.6	95	14		
19-m	11/15/93	14:45	19.2	2.0	71	8		
19-m	11/16/93	11:50	19.7	1.3	41	9		
19-m	11/17/93	10:50	17.6	2.4	70	9	11.8	
19-m	11/18/93	11:15	15.0	3.4	86	9		
19-m	11/19/93	10:30	14.1	3.6	94	15	12.5	
19-d	11/15/93	14:45	20.2	0.8	34	9	51	
19-d	11/16/93	11:50	19.5	1.4	44	10		
19-d	11/17/93	10:50	17.8	2.1	63	10		
19-d	11/18/93	11:15	16.2	2.7	76 ::	9		
19-d	11/19/93	10:30	15.0	2.7	80	13		
20-s	11/15/93	14:20	20.5	0.7	32	8		
20-s	11/16/93	11:00	20.8	0.7	11			
20-s	11/17/93	10:15	20.3	0.7	24	9		
20-s	11/18/93	10:45	20.5	0.8	38	10		
20-s	11/19/93	9:50	20.5	0.8	30	7		
20-m	11/15/93	14:20	20.5	0.7	30	10		
20-m	11/16/93	11:00	20.8	0.7	20		11.3	•
20-m	11/17/93	10:15	20.5	0.7	20	10		
20-m	11/18/93	10:45	20.0	0.7	20	11		
20-m	11/19/93	9:50	20.5	0.7	22	10	8.4	
20-d	11/15/93	14:20	20.8	0.6	14	9		
20-d	11/16/93	11:00	20.9	0.6	4	9		
20-d	11/17/93	10:15	20.8	0.6	9	10		
20-d	11/18/93	10:45	20.6	0.6	12	10		
20-d	11/19/93	9:50	20.6	0.6	10	9		
20 0	11,17,73	7.50	20.0					
21-s	11/15/93	13:20	20.2	0.8	31	10		
21-s	11/16/93	11:30	20.5	0.8	24	9		
21-s	11/17/93	10:05	20.4	0.8	42	8		
21-s 21-s	11/18/93	10:40	20.5	1.0	45	11		
21-s 21-s	11/19/93	9:55	20.5	0.9	45	8		
21-m	11/15/93	13:20	20.5	0.8	34	10	11.5	
21-m	11/15/93	11:30	20.5	0.8	J-	11		
21-m	11/17/93	10:05	20.3	0.8	39	11	10.3	
21-m	11/11/93	10:03	20.5	0.8	43	15	10.0	
		9:55	20.3	0.9	40	11	7.7	
21-m	11/19/93		7	0.6	28	13		
21-d	11/15/93	13:20	20.8 20.8	0.6	14	9		
21-d	11/16/93	11:30			19	9		
21-d	11/17/93	10:05	20.7	0.7		13		
21-d	11/18/93	10:40	20.5	0.7	20			
21-d	11/19/93	9:55	20.5	0.7	22	9		

h. Litu Respiration Test Data - FE Warren AFB (14 3)

Complian		T		Oli Test Dat	TPH	Pump Press	Temp	I
Sampling	D-4-	T:	02 (7)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
Point 16-s	Date 11/15/02	Time 14:25	O2 (%) 20.8	CO2 (%) 0.6	60	8	(C)	Comments
16-s 16-s	11/15/93	13:07	20.8	1.2	35	8		
1	11/16/93		19.8	1.3	53	7		
16-s	11/17/93	10:25 11:00	19.6	1.7	56	7		
16-s	11/18/93	1		1	60	12		
16-s	11/19/93	10:40	19.5	1.5	48	9	14	
16-m	11/15/93	14:25	20.0	0.9	30	7	14	
16-m	11/16/93	13:07	20.2	0.9	44	7	11.5	
16-m	11/17/93	10:25	19.8	1.0	54	9	11.5	
16-m	11/18/93	11:00	19.5	1.2		13	9.9	
16-m	11/19/93	10:40	19.5	1.3	51	11	7.7	
16-d	11/15/93	14:25	20.5	0.7	26	10		
16-d	11/16/93	13:07	20.5	0.7	18			
16-d	11/17/93	10:25	20.0	0.8	37	10		
16-d	11/18/93	11:00	19.5	1.0	50 .	10		
16-d	11/19/93	10:40	19.5	1.0	48	13		
1.0	11/17/00	14.30	20.0	0.6	10	10		
17-s	11/15/93	14:30	20.8	0.6	12	10		
17-s	11/16/93	13:03	19.0	2.0	58	8		
17-s	11/17/93	10:30	19.0	2.0	66	8 7		
17-s	11/18/93	11:05	18.0	2.6	90			
17-s	11/19/93	10:35	18.1	2.5	80	12	14.2	
17-m	11/15/93	14:30	19.8	1.4	58	10	14.2	
17-m	11/16/93	13:03	19.5	1.4	43	8	10.2	
17-m	11/17/93	10:30	18.8	1.8	60	9 8	10.2	
17-m	11/18/93	11:05	18.0	2.3	80		10.6	
17-m	11/19/93	10:35	18.2	2.2	70	16	10.6	
17-d	11/15/93	14:30	20.8	0.6	34	10		
17-d	11/16/93	13:03	19.9	0.8	35	8		
17-d	11/17/93	10:30	19.0	1.3	49	10		
17-d	11/18/93	11:05	18.0	1.9	74	9		
17-d	11/19/93	10:35	18.1	1.9	70	16		
					06			
18-s	11/15/93	14:40	16.5	5.0	96	11		
18-s	11/16/93	13:00	16.5	4.7	84	9		
18-s	11/17/93	10:40	15.8	4.9		11		
18-s	11/18/93	11:10	15.0	5.6	110	12		
18-s	11/19/93	10:35	14.5	5.1	110	15		
18-m	11/15/93	14:40	16.8	4.6	97	10		
18-m	11/16/93	13:00	16.6	4.3	81	9		
18-m	11/17/93	10:40	15.3	4.9	95	10	11.4	
18-m	11/18/93	11:10	14.3	5.3	120	11		
18-m	11/19/93	10:35	13.3	5.5	110	15	13.3	
18-d	11/15/93	14:40	18.2	3.0	75	10		
18-d	11/16/93	13:00	17.5	3.2	71	9		
18-d	11/17/93	10:40	15.7	3.8	88	10		
18-d	11/18/93	11:10	14.0	4.5	110	11		
18-d	11/19/93	10:35	13.2	4.9	110	15		

u Respiration Test Data - FE Warren AFB (1

Campling	1		u respirad		TPH	Pump Press	Temp	1
Sampling	Deta	7:	02 (77)	CO2 (%)	i .	1 -		Comments
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Continents
22-s	11/15/93	13:10	19.7	1.5	62	8		
22-s	11/16/93	10:50	19.7	1.4	43	9	ĺ	
22-s	11/17/93	10:00	19.5	1.5	58	8		
22-s	11/18/93	10:30	19.5	1.8	64	11		
22-s	11/19/93	10:00	19.5	1.5	68	8	10.4	
22-m	11/15/93	13:10	20.2	0.8	46	8	12.4	
22-m	11/16/93	10:50	20.2	0.8	32	9		
22-m	11/17/93	10:00	20.0	0.8	39	9	11.6	
22-m	11/18/93	10:30	19.7	1.1	47	9		
22-m	11/19/93	10:00	19.5	1.0	55	9	8.9	
22-d	11/15/93	13:10	20.9	0.7	33	10		
22-d	11/16/93	10:50	20.5	0.7	20	11		
22-d	11/17/93	10:00	20.0	0.7	25.0	11		
22-d	11/18/93	10:30	20.0	0.8	30 🕫	11		
22-d	11/19/93	10:00	20.1	0.8	30	11	<u> </u>	
23-s	11/15/93	13:05	20.2	0.9	41	12		
23-s	11/16/93	11:40	20.4	0.9	29	8		
23-s	11/17/93	9:55	19.8	0.9	40	10		
23-s	11/18/93	10:25	19.5	1.3	52	10		
23-s	11/19/93	10:45	19.2	1.0	58	12		
23-m	11/15/93	13:05	20.5	0.7	35	17	11.2	
23-m	11/16/93	11:40	20.5	0.7	19	12		
23-m	11/17/93	9:55	20.1	0.7	32	16	10.7	
23-m	11/18/93	10:25	19.5	0.8	36	14		
23-m	11/19/93	10:45	20.0	0.8	34	16	8	
23-d	11/15/93	13:05	20.8	0.6	14	14		
23-d	11/16/93	11:40	20.8	0.6	- '			
23-d	11/17/93	9:55	20.3	0.7	13.0	13		
23-d	11/18/93	10:25	19.5	0.7	10	10		
23-d	11/19/93	10:45	19.5	0.7	11	11		
25-0	11/19/93	10.45	13.5	0.7	11			
24-s	11/15/93	13:00	19.1	2.3	70	12		
24-s 24-s	11/15/93	10:50	18.2	2.3	58	9		
24-s 24-s	11/17/93	11:45	18.8	2.4	72	8		
1 1	1	1	,	2.4	60	12		
24-s	11/18/93	9:45	18.4	- 1	82	13		
24-s	11/19/93	10:20	18.2	2.6		12	10.8	
24-m	11/15/93	13:00	19.5	2.1	58	1	10.0	
24-m	11/16/93	10:50	19.5	1.8	50	9	11.7	
24-m	11/17/93	11:45	18.8	2.0	66	9	11.7	
24-m	11/18/93	9:45	18.2	2.3	52	13		
24-m	11/19/93	10:20	19.0	1.6	60	12	9.1	
24-d	11/15/93	13:00	20.1	1.0	36	12		
24-d	11/16/93	10:50	19.7	1.5	43	9		
24-d	11/17/93	11:45	19.5	1.3	52.0	10.0		
24-d	11/18/93	9:45	18.5	2.2	50	13	l	
24-d	11/19/93	10:20	17.9	2.2	80	13		

Lu Respiration Test Data - FE Warren AFB (

	T			011 1001 240		Pump Press	Temp	
Sampling	2	201	02.0%	CO2 (%)	TPH	(in Hg)	(C)	Comments
Point	Date	Time	O2 (%)	1.3	(ppm) 63	12	(0)	
25-s	11/15/93	11:30	20.0		1	11		İ
25-s	11/16/93	10:45	20.1	1.3	20 50	10		
25-s	11/17/93	9:15	19.8	1.3	1	13		
25-s	11/18/93	9:50	19.8	1.6	60			
25-s	11/19/93	8:35	20.0	1.4	72	12	10.4	
25-m	11/15/93	11:30	20.8	0.8	39	22	10.4	
25-m	11/16/93	10:45	20.8	0.8	20	19		
25-m	11/17/93	9:15	20.2	0.7	40	19	8.8	
25-m	11/18/93	9:50	20.2	0.9	37	21	0.0	
25-m	11/19/93	8:35	20.5	0.8	40	22	9.8	
25-d	11/15/93	11:30	21.0	0.6	12	10		
25-d	11/16/93	10:45	21.0	0.6	4	11		
25-d	11/17/93	9:15	20.5	0.6	14.0	10		
25-d	11/18/93	9:50	20.5	0.7	15	14		
25-d	11/19/93	8:35	20.5	0.7	30	14		<u> </u>
					0.7	10		<u> </u>
26-s	11/15/93	12:30	20.5	0.7	33	12		
26-s	11/16/93	10:15	20.5	0.8	37	12		
26-s	11/17/93	9:20	20.5	0.8	32	10		
26-s	11/18/93	9:55	20.3	0.8	30	8		
26-s	11/19/93	8:45	20.3	0.8	40	12		
26-m	11/15/93	12:30	20.5	0.7	35	13	11.5	
26-m	11/16/93	10:15	20.5	0.7	30	10		
26-m	11/17/93	9:20	20.5	0.7	30	10	9	
26-m	11/18/93	9:55	20.2	0.8	26	9		
26-m	11/19/93	8:45	20.2	0.7	28	10	9.8	
26-d	11/15/93	12:30	20.9	0.6	32	9		
26-d	11/16/93	10:15	20.9	0.6	26	10		
26-d	11/17/93	9:20	20.5	0.7	28.0	10		
26-d	11/18/93	9:55	20.1	0.8	32	9		
26-d	11/19/93	8:45	20.2	0.6	26	10		
27-s	11/15/93	12:40	16.1	4.2	82	12		
27-s	11/16/93	10:10	15.5	4.5	110	10		
27-s	11/17/93	9:30	16.3	4.4	93	10		
27-s	11/18/93	10:05	16.0	4.4	100	11		
27-s	11/19/93	8:05	15.7	3.9	110	15	•	
27-m	11/15/93	12:40	17.8	3.2	80	13	13.2	
27-m	11/16/93	10:10	16.3	- 3.6	91	10		
27-m	11/17/93	9:30	14.5	4.3	93	10	9.4	
27-m	11/18/93	10:05	13.4	4.7	100	11		
27-m	11/19/93	8:05	12.8	4.5	120	14	10	
27-d	11/15/93	12:40	18.9	1.9	61	-		
27-d	11/16/93	10:10	18.2	2.0	82	10		
27-d	11/17/93	9:30	16.0	3.0	82.0	11		
27-d	11/18/93	10:05	14.2	2.9	95	10		
27-d	11/19/93	8:05	13.8	3.8	120	15		

In situ Respiration Test Data - FE Warren (11-93)

		in sit	u Kespitau	on lest Date				
Sampling				ges (%)	TPH	Pump Press	Temp (C)	Comments
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg) 8	(C)	*with 1:1 dilutor
28-s	11/15/93	12:45	8.9	8.5	93	9		widi 1.1 dildiqi
28-s	11/16/93	10:08	8.9	8.7	96			
28-s	11/17/93	9:35	8.5	8.5	97	11		
28-s	11/18/93	10:10	10.7	7.2	94	12		
28-s	11/19/93	8:02	8.8	7.7	120	14 9	15.8	
28-m	11/15/93	12:45	7.9	9.5	95		13.0	
28-m	11/16/93	10:08	7.9	8.9	97	10 10	11.7	14.8C @ 10:40 am
28-m	11/17/93	9:35	6.7	9.2	98	10	11.7	14.00 @ 10.40 am
28-m	11/18/93	10:10	6.6	9.2	100		11.7	
28-m	11/19/93	8:02	6.5	9.5	130	14 9	11.7	
28-d	11/15/93	12:45	10.5	7.5	92			
28-d	11/16/93	10:08	10.0	7.2	100	10 11		
28-d	11/17/93	9:35	8.0	7.7	97.0			
28-d	11/18/93	10:10	5.7	8.9	150	12		
28-d	11/19/93	8:02	5.2	8.6	130	14		
					70	0		I
29-s	11/15/93	12:50	18.0	3.0	72	8		
29-s	11/16/93	10:02	17.8	2.9	90	9		
29-s	11/17/93	16:40	17.4	3.2	130	8		
29-s	11/18/93	9:40	15.5	3.4	84	11		8
29-s	11/18/93	10:15	14.8	3.8	90	11		
29-s	11/19/93	8:00	13.7	3.2	110	8	142	
29-m	11/15/93	12:50	19.5	1.5	50	8	14.3	
29-m	11/16/93	10:02	15.3	4.0	100	9		
29-m	11/17/93	16:40	13.3	4.5	130	9	1,,,	
29-m	11/18/93	9:40	10.0	5.3	88	9	11.7	
29-m	11/18/93	10:15	5.3	6.8	100	9	107	12.2
29-m	11/19/93	8:00	4.8	7.0	130	9	10.7	
29-d	11/15/93	12:50	15.9	4.3	96	10		
29-d	11/16/93	10:02	17.5	2.2	90	11		
29-d	11/17/93	16:40	14.2	6.7	120.0	11	ļ	
29-d	11/18/93	9:40	8.9	5.5	90	11		
29-d	11/18/93	10:15	3.0	8.0	100	11	1	
29-d	11/19/93	8:00	2.0	13.8	130	11		
30-s	11/15/93	12:00	20.5	0.9	52	11	1	
30-s	11/16/93	9:00	20.5	0.9	44	9		
30-s	11/17/93	9:05	20.5	0.8	37	9		
30-s	11/18/93	9:45	20.5	1.0	43	12	!	
30-s	11/19/93	8:30	20.5	0.8	49	12	7.	9.7C @ 4:00 pm
30-m	11/15/93	12:00	20.6	0.7	- 54	13	7.4	3./C @ 4.00 pill
30-m	11/16/93	9:00	20.5	0.8	49	17		
30-m	11/17/93	9:05	20.3	1.0	60	17	7.3	
30-m	11/18/93	9:45	20.5	1.2	48	21		
30-m	11/19/93	8:30	20.5	1.0	56	20	8.1	
30-d	11/15/93	12:00	20.3	1.4	63	14	1	
30-d	11/16/93	9:00	20.3	1.5	57	10	[
30-d	11/17/93	9:05	20.1	1.3	60.0	10		
30-d	11/18/93	9:45	20.0	1.5	70	14		
30-d	11/19/93	8:30	20.4	1.3	65	14	L	

		In si	tu Respirat	tion Test Da	a - FE Wa		93)	
Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
31-s	11/15/93	11:55	20.5	0.8	34	8	1	
31-s	11/16/93	9:07	20.5	0.8	31	9		
31-s	11/17/93	9:00	20.5	0.8	40	3	1	
31-s	11/18/93	21:40	16.5	2.7	90	10		
31-s	11/19/93	8:25	20.5	0.9	60	12		
31-m	11/15/93	11:55	20.5	0.8	41	20	9.9	
31-m	11/16/93	9:07	20.5	0.8	36	15		
31-m	11/17/93	9:00	20.5	0.8	40	17	8.6	
31-m	11/18/93	21:40	14.5	3.8	100	14	14.2	
31-m	11/19/93	8:25	20.5	0.8	40	20	8.5	
31-d	11/15/93	11:55	20.2	1.5	70	11		
31-d	11/16/93	9:07	20.2	1.2	64	12	İ	
31-d	11/17/93	9:00	20.2	1.5	63.0	11.0]	
31-d	11/18/93	9:40	13.0	4.2	100	14		
31-d	11/19/93	8:25	20.3	1.5	80	15		
32-s	11/15/93	11:50	9.0	8.0	93	18		w/1:1 diluter
32-s	11/16/93	-	§*/		Ţ .	20	.,	clogged
32-m	11/15/93	11:50	.4.2	· 13.5	90	.8	12.4	w/1:1 diluter
32-m	11/16/93	9:20	4.5	11.5	. 260	9	•	
32-m	11/16/93	10:59	4.9	11.5	260	9	11.6	
32-m	11/17/93	16:30	5.3	11.5	260	9	•	
32-m	11/18/93	9:00	5.5	. 12.5	110	9.		
32-m	11/19/93	9:30	6.2	11.8	130	9		
32-m	11/19/93	8:20	7.0	11.2	150	9	8.9	
32-d	11/15/93	11:50	16.0	5.2	800	10	•	
32-d	11/16/93	9:20	2.8	13.5	1400	11		w/1:1 diluter
32-d	11/16/93	10:59	0.2	13.2	1400	11		
32-d	11/16/93	16:30	0.0	14.0	1200	11 .		
32-d	11/17/93	9:00	0.0	15.5	1400	11		
32-d	11/18/93	9:30	0.0	15.5	1400	11		
<u> </u>								
33-s	11/15/93	13:35	15.0	4.5	75	8		
33-s	11/16/93	9:30	14.3	5.2	120	9		
33-s	11/17/93	16:35	I4.3	5.2	130			
33-s	11/18/93	8:50	14.0	5.5	110	10		
33-s	11/18/93	9:25	14.5	5.5	110	8	ſ	25
33-s	11/19/93	8:15	15.0	5.5	110	12	10.	
33-m _.	11/15/93	13:35	12.2	6.6	110	11	13.1	
33-m	11/16/93	9:30	11.8	6.5	120	11		
33-m	11/16/93	16:35	11.7	6.8	130	_	10.2	}
33-m	11/17/93	8:50	11.0	7.5	220	13	11.9	
33-m	11/18/93	9:25	11.2	7.7	150	11	12.0	
33-m	11/19/93	8:15	12.5	7.5	160	16	10.1	
33-d	11/15/93	13:35	0.0	13.5	500	11		1
33-d	11/16/93	9:30	2.0	12.0	600	11		
33-d	11/17/93	16;35	5.0	9.0	430		l	
33-d	11/18/93	8:50	0.0	13.8	880	12	ŀ	
33-d	11/18/93	9:25	0.0	13.5	470	10	- 1	İ
. 33-d	11/19/93	8:15	1.8	. 12.5	540	13	ŀ	

u Respiration Test Data - FE Warren AFB (1)

Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
34-s	11/15/93	11:30	19.2	1.5	10	10		
34-s	11/16/93	9:45	19.2	1.7	9	9		
34-s	11/17/93	8:45	17.3	2.5	13	13		
34-s	11/18/93	9:20	16.5	2.7	10	10		
34-s	11/19/93	7:50	16.2	2.9	13	13		
34-m	11/15/93	11:30	18.8	2.0	12	12	17.4	
34-m	11/16/93	9:45	18.8	2.3	11	11		
34-m	11/17/93	8:45	15.8	3.3	14	14	13.9	
34-m	11/18/93	9:20	14.5	3.8	14	14		*
34-m	11/19/93	7:50	13.3	3.9	15	15	11.1	
34-d	11/15/93	11:30	18.5	2.1	9	9		
34-d	11/16/93	9:45	18.2	2.7	9	9		
34-d	11/17/93	8:45	14.8	3.5	9.0	9		
34-d	11/18/93	9:20	13.0	4.2	14	14		
34-d	11/19/93	7:50	11.8	4.3	14	14		

Samplin		 	7	T	TPH	D. D.	-	
Sampling	~	T:	00 (0)	600 (9()	1	Pump Press		
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
1-s	2/25/94	12:22	15.5	5.8	130	7.0	-0.7	
1-s	2/25/94	16:00	15.5	5.5	150	5.0	-1.1	
1-s	2/26/94	9:50	15.3	5.7	130	12.0	-2.0	
1-s	2/27/94	10:45	15.7	5.5	120	9.0	-1.5	
1-s	2/28/94	9:19	16.5	5.8	100	9.5	-0.7	
1-s	3/1/94	11:20	16.0	5.7	90	9.5	-1.3	
1-m	2/25/94	12:22	14.0	6.3	130	-	1.5	
1-m	2/25/94	16:00	14.9	6.0	150	5.0	1.3	
1-m	2/26/94	9:50	14.3	6.3	130	12.0	1.0	
1-m	2/27/94	10:45	14.6	6.4	125	9.0	0.9	
1-m	2/28/94	9:19	14.7	6.3	100	10.0	1.3	
1-m	3/1/94	11:20	14.3	7.0	90	10.0	0.9	
1-d	2/25/94	12:22	15.0	6.0	140	5.5	4.9	
1-d	2/25/94	16:00	14.0	6.2	150	5.0	4.4	
1-d	2/26/94	9:50	13.5	6.7	130	11.0	3.8	
1-d	2/27/94	10:45	13.5	6.8	125	9.5	3.6	
1-d	2/28/94	9:19	13.5	7.0	100	10.0	4.6	
1-d	3/1/94	11:20	13.1	7.7	92	11.0	4.1	
		,	-					
2-s	2/25/94	12:16	19.2	2.7	9.3	4.0	-0.3	
2-5	2/25/94	15:47	19.2	2.7	125	4.5	-0.9	
2-s	2/26/94	9:58	19. <i>7</i>	2.4	92	8.0	-0.4	
2-s	2/27/94	10:40	19.5	2.1	91	10.5	-1.3	
2-s	2/28/94	9:26	19.3	2.2	60	8.0	-0.7	
2-s	3/1/93	11:14	19.4	1.8	64	8.0	-1.0	
2-m	2/25/94	12:16	19.0	2.8	94	6.5	-	*
2-m	2/25/94	15:47	19.0	2.7	120	5.5	-	
2-m	2/26/94	9:58	19.0	2.9	100	9.0	-	
2-m	2/27/94	10:40	18.8	2.9	100	9.0	-	
2-m	2/28/94	9:26	18.5	4.0	86	9.0	-	
2-m	3/1/94	11:14	18.7	4.6	76	9.0		
2-d	2/25/94	12:16	18.3	3.3	110	10.0	5.0	
2-d	2/25/94	15:47	18.3	3.3	135	4.8	4.7	
2-d	2/26/94	9:58	18.0	3.4	110	10.0	4.5	
2-d	2/27/94	10:40	17.8	3.3	110	10.0	4.4	
2-d	2/28/94	9:26	17.7	3.5	92	10.0	4.7	
2-d	3/1/94	11:14	3.5	80.0	9.5	9.4		
								2)
3-s	2/25/94	12:10	20.2	1.2	56	5.0	-0.2	
3-s	2/25/94	15:42	20.2	1.3	90	4.0	-0.1	
3-s	2/26/94	10:02	19.7	1.6	77	9.0	-0.5	
3-s	2/27/94	10:35	19.3	1.5	79	10.0	-0.9	
3-s	2/28/94	9:32	19.0	1.7	65	9.0	-0.4	-
3-s	3/1/94	11:08	18.8	1.6	63	8.5	-0.6	

C1!								
Sampling Point	Date	T:	O2 (%)	CO2 (%)	TPH	Pump Press	Temp	C
3-m	2/25/94	Time	20.0	1.5	(ppm)	(in Hg)	(C)	Comments
3-m	1	12:10	1	1.5	68	6.5	4.3	
1	2/25/94	15:42	20.0	1.8	100	7.0	4.2	
3-m	2/26/94	10:02	19.5		88	9.0	3.2	
3-m	2/27/94	10:35	19.0	1.7	84	10.0	3.2	
3-m	2/28/94	9:32	18.7	1.9	70	9.0	3.8	
3-m	3/1/94	11:08	18.5	1.9	66	9.0	3.6	
3-d	2/25/94	12:10	19.3	2.0	81	6.5	6.8	
3-d	2/25/94	15:42	19.3	2.0	120	5.0	6.7	
3-d	2/26/94	10:02	19.0	2.3	93	9.0	5.9	
3-d	2/27/94	10:35	18.8	2.1	92	9.0	7.5	
3-d	2/28/94	9:32	18.5	2.3	76	10.0	6.4	·
3-d	3/1/94	11:08	18.3	2.3	73	9.5	6.2	
1.0	2 /25 /04	12.02	10.5	17	77	60	0.2	
4-s	2/25/94	12:03	19.5	1.7	110	6.0	0.3	
4-s	2/25/94	15:38	19.5	1.7	110	4.0	0.9	
4-s	2/26/94	10:06	18.9	2.2	90	8.5	0.3	
4-s	2/27/94	10:30	18.1	2.1	90	9.0	0.0	
4-s	2/28/94	9:36	17.2	2.3	72 70	11.0	0.7	
4-s	3/1/94	11:02	17.0	2.3	70	10.0	0.7	
4-m	2/25/94	12:03	18.7	2.3	87	8.0	2.1	
4-m	2/25/94	15:38	18.8	2.4	120	5.5	2.4	
4-m	2/26/94	10:06	17.8	2.7	100	11.0	6.2	
4-m	2/27/94	10:30	16.8	2.8	98	11.0	6.6	
4-m	2/28/94	9:36	15.7	3.2	80	11.5	7.1	
4-m	3/1/94	11;02	15.0	3.3	80	11.5	6.7	
4-d	2/25/94	12:03	18.5	2.3	96	16.0	4.3	
4-d	2/25/94	15:38	17.6	2.8	130	12.0	4.2	
4-d	2/25/94	16:39	17.4	2.8	130			
4-d	2/26/94	10:06	16.0	3.5	120	10.0	3.2	
4-d	2/27/94	10:30	14.8	3.9	120	10.0	3.2	
4-d	2/28/94	9:36	13.8	4.3	93	10.5	3.7	
4-d	3/1/94	11:02	13.0	4.5	94	11.0	3.5	
5-s	2/25/94	11:56	16.7	3.7	110	5.0	0.5	
5-s	2/25/94	15:34	16.9	3.5	140	5.0	-0.7	
5-s	2/26/94	10:11	16.8	3.7	110	9.0	-1.6	
5-s	2/27/94	10:55	16.8	3.5	105	. 9.5	-1.5	
5-s	2/28/94	9:42	16.2	3.5	84	12.0	-0.9	
5-s	3/1/94	11:27	15.3	3.6	80	8.5	-0.9	

Sampling	,	<u> </u>		1	TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)		
5-m	2/25/94	11:56	16.5	3.8	110	6.0	(C) 2.0	Comments
5-m	2/25/94	15:34	16.3	3.8	140	4.0	1.6	
5-m	2/26/94	10:11	16.5	3.7	105	9.5	1	
5-m	2/27/94	10:11	15.9	I .	115	9.0	1.1	
5-m	1	1	1	3.9	1	1	0.7	
5-m	2/28/94 3/1/94	9:42	15.0	3.9	88	9.5	1.2	
5-d	2/25/94	11:27	13.7	4.0	80	9.0	1.3	
5-d	1	11:56	14.5	4.6	120	6.0	7.4	
5-d 5-d	2/25/94	15:34	15.0	4.5	150	5.0	6.7	
5-d 5-d	2/26/94	10:11	14.3	4.7	110	10.0	6.9	
	2/27/94	10:55	13.8	4.7	120	9.5	5.5	[
5-d 5-d	2/28/94	9:42	12.2	5.1	95	10.0	6.1	
3-a	3/1/94	11:27	10.3	6.2	11	10.0	6.1	
6-s	2/25/94	12:36	19.8	1.7	73	4.0	-0.3	
6-s	2/26/94	10:31	19.5	1.8	90	8.5	-0.1	
6-s	2/27/94	11:00	18.9	1.9	84	8.5	-1.2	
6-s	2/28/94	9:46	18.2	1.9	66	9.0	-0.9	
6-s	3/1/94	11:32	17.5	2.0	67	9.0	-0.8	
6-m	2/25/94	12:36	19.8	1.6	70	7.5	6.4	
6-m	2/26/94	10:31	19.1	1.9	90	11.0	6.7	
6-m	2/27/94	11:00	18.4	2.0	88	11.0	5.5	
6-m	2/28/94	9:46	18.0	2.0	66	11.5	5.8	
6-m	3/1/94	11:32	17.0	2.3	72	12.0	5.9	
6-d	2/25/94	12:36	19.5	1.9	76	6.5	2.1	
6-d	2/26/94	10:31	18.6	2.2	97	9.5	1.8	
6-d	2/27/94	11:00	17.8	2.3	94	9.0	1.1	
6-d	2/28/94	9:46	17.3	2.3	70	10.0	1.2	
6-d	3/1/94	11:32	16.5	2.8	80	13.0	1.4	
7-s	2/25/94	12:48	20.5	1.0	52	14.0		
7-s	2/26/94	10:34	20.3	1.1	67	15.5	-	
7-s	2/27/94	11:05	20.0	1.1	64	16.0	i	
7-s	2/28/94	9:52	20.0	0.9	42	15.0		
7-s	3/1/94	11:40	19.5	1.0	35	14.0		
7-m	2/25/94	12:48	20.7	0.8	44	7.5	3.3	
7-m	2/26/94	10:34	20.3	1.0	63	9.5	3.4	
7-m	2/27/94	11:05	20.0	0.9	61	9.0	3.0	
7-m	2/28/94	9:52	20.0	0.9	42	9.5	3.7	
7-m ·	3/1/94	11:40	19.7	0.9	41	9.0	3.8	
7-d	2/25/94	12:48	-	-	-	20.0		no flow
7-d	2/26/94	10:34	-	-	- 1	19.5]:	no flow
7-d	2/27/94	11:05	-	-	-	19.5]:	no flow
7-d	2/28/94	9:52	-	-	-	19.5		no flow
7-d	3/1/94						1	no flow

Point Date Time O2 (%) CO2 (%) (ppm) (in Hg) (C) Comments	<u> </u>				- ,				
8-s 2/25/94 12:49 20.0 1.5 67 5.0 8-s 2/26/94 10:37 20.0 1.4 79 8.0 8-s 2/26/94 10:37 20.0 1.4 79 8.0 8-s 2/28/94 9:55 19.7 1.3 53 8.0 8-s 3/1/94 11:44 19.6 1.4 50 8.0 8-m 2/25/94 10:37 19.8 1.6 80 9.0 3.9 8-m 2/26/94 10:37 19.8 1.6 80 9.0 3.9 8-m 2/28/94 9:55 19.5 13. 54 9.5 3.8 8-m 2/28/94 11:15 19.8 1.4 75 8.0 3.2 8-m 2/28/94 11:15 19.8 1.4 75 8.0 3.2 8-m 2/28/94 11:15 19.8 1.4 75 8.0 3.2 8-m 2/28/94 11:15 19.8 1.4 75 8.0 3.2 8-m 2/28/94 9:55 19.5 1.3 54 9.5 3.8 8-d 2/28/94 10:37 19.6 1.6 83 9.0 3.5 8-d 2/26/94 11:15 19.4 1.5 78 8.0 8-d 2/26/94 11:15 19.4 1.5 78 8.0 8-d 2/27/94 11:15 19.4 1.5 78 8.0 8-d 2/28/94 9:55 19.3 1.5 56 9.5 8-d 3/1/94 11:44 19.3 1.5 60 9.5 8-d 3/1/94 11:44 19.3 1.5 60 9.5 8-d 3/1/94 11:44 19.3 1.5 56 9.5 8-d 3/1/94 11:44 19.3 1.5 56 9.5 8-d 3/1/94 11:49 20.0 0.7 32 8.0 9-s 2/26/94 10:40 20.5 0.8 52 8.0 9-s 2/28/94 10:00 20.2 0.7 32 8.0 9-s 2/28/94 10:00 20.2 0.7 32 8.0 9-m 2/25/94 11:17 20.2 0.7 49 8.0 9-m 2/25/94 11:25 20.9 0.5 24 6.5 5.1 9-m 2/28/94 10:00 20.1 0.5 22 8.0 9-m 2/25/94 11:49 20.0 0.7 38 8.0 9-m 2/25/94 10:00 20.1 0.5 25 9.5 4.0 9-m 2/26/94 10:00 20.1 0.5 25 9.5 4.0 9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 10:00 20.1 0.5 25 9.5 4.5 9-d 2/25/94 11:17 20.3 0.4 39 9.0 4.3 9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 10:00 20.1 0.5 25 9.5 4.0 9-d 2/25/94 10:00 20.2 0.5 24 9.5 9-d 2/25/94 10:00 20.1 0.5 25 9.5 4.0 9-d 2/25/94 10:00 20.2 0.5 24 9.5 9-d 2/25/94 11:17 20.3 0.3 3.9 10.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 2/25/94 11:49 19.8 0.5 84 9.5 10-s 2/28/94 11:49 19.8 0.5 84 9.5 10-s 2/28/94 11:45 19.7 1.9 80 6.0 10-m 2/28/94 11:45 19.8 1.7 74 75 6.5 10-m 2/26/94 11:45 19.8 1.7 74 75 6.5 10-m 2/26/94 11:45 19.8 1.7 74 75 6.5 10-m 2/26/94 11:45 19.8 1.7 74 75 6.5 10-m 2/26/94 11:45 19.8 1.7 74 75 6.5 10-m 2/26/94 11:45 19.8 1.7 74 75 6.5		- 1	1		İ	TPH	Pump Press	Temp	
8-s				O2 (%)		(ppm)	(in Hg)	(C)	Comments
8-s	1		i i	1	1	67	5.0		
8-s	1	1	1	1	1	79	8.0		
8-s 3/1/94 11:44 19.6 1.4 50 8.0 8-m 2/25/94 12:49 20.2 1.3 6.3 5.0 4.0 8-m 2/26/94 10:37 19.8 1.6 80 9.0 3.9 8-m 2/28/94 9:55 19.5 1.3 54 9.5 3.8 8-m 2/28/94 9:55 19.5 1.3 54 9.5 3.8 8-m 3/1/94 11:44 19.3 1.5 38 9.0 3.5 8-d 2/25/94 10:37 19.6 1.6 83 9.0 8-d 2/26/94 10:37 19.6 1.6 83 9.0 8-d 2/28/94 9:55 19.3 1.5 56 9.5 8-d 2/28/94 9:55 19.3 1.5 56 9.5 8-d 2/28/94 10:40 20.5 0.8 52 8.0 9-s 2/26/94 10:40 20.5 0.8 52 8.0 9-s 2/28/94 10:40 20.2 0.7 32 8.0 9-s 2/28/94 10:40 20.2 0.7 32 8.0 9-s 3/1/94 11:49 20.0 0.7 38 8.0 9-m 2/25/94 11:17 20.2 0.7 49 8.0 9-m 2/26/94 10:40 20.6 0.5 40 9.0 3.6 9-m 2/26/94 10:40 20.6 0.5 40 9.0 3.6 9-m 2/28/94 10:00 20.1 0.5 22 4 6.5 5.1 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-d 2/25/94 12:54 21.0 0.5 22 5.0 9-d 2/25/94 11:45 19.8 0.5 32 9.5 4.5 9-d 2/27/94 11:17 20.3 0.3 39 9.0 4.3 9-d 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/27/94 11:17 20.3 0.3 39 9.0 4.3 9-d 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/27/94 11:17 20.3 0.3 39 9.0 4.3 9-d 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-d 2/27/94 11:17 20.3 0.4 39 9.0 4.3 9-d 2/28/94 10:00 20.1 0.5 8.5 32 9.5 4.5 9-d 2/27/94 11:17 20.3 0.4 9.5 9.5 9.5 4.0 9-d 2/28/94 10:00 20.1 0.5 8.5 32 9.5 4.5 9-d 2/28/94 10:00 20.1 0.5 8.5 32 9.5 4.5 9-d 2/28/94 10:00 20.1 0.5 8.5 32 9.5 4.5 9-d 2/27/94 11:17 20.3 0.3 39 91.0.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-m 2/28/94 11:05 18.7 1.9 84 10.0 10-s 2/28/94 11:05 18.7 1.9 84 10.0 10-s 2/28/94 11:05 18.7 1.9 84 10.0 10-m 2/28/94 11:05 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.3 2.0 70 8.5 10-m 2/28/94 11:55 18.0 2.0 66 8.0 10-m 2/28/94 10:23 18.3 2.0 70 9.5 6.4						<i>7</i> 3	8.0	L	
8-m 2/25/94 12:49 202 1.3 63 5.0 4.0 8-m 2/26/94 10:37 19.8 1.6 80 9.0 3.9 8-m 2/27/94 11:15 19.8 1.4 75 8.0 3.2 8-m 2/27/94 11:15 19.8 1.4 75 8.0 3.2 8-m 3/1/94 11:44 19.3 1.5 38 9.0 3.5 8-m 3/1/94 11:44 19.3 1.5 38 9.0 3.5 8-d 2/25/94 10:37 19.6 1.6 83 9.0 3.5 8-d 2/26/94 10:37 19.6 1.6 83 9.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	1	1	1	1	1.3	53	8.0		
8-m						50	8.0		
8-m	1	1	- E	1	1.3	63	5.0	4.0	
8-m	l .	1	10:37	19.8	1.6	80	9.0	3.9	
8-m 3/1/94 11:44 19:3 1.5 38 9.0 3.5 8-d 2/25/94 12:49 20.2 1.3 64 6.0 8-d 2/26/94 10:37 19:6 1.6 83 9.0 8-d 2/27/94 11:15 19:4 1.5 78 8.0 8-d 2/28/94 9:55 19:3 1.5 56 9:5 8-d 3/1/94 11:44 19:3 1.5 60 9:5 8-d 3/1/94 11:44 19:3 1.5 60 9:5 9-s 2/25/94 10:40 20:5 0.8 52 8.0 9-s 2/27/94 11:17 20:2 0.7 49 8.0 9-s 2/28/94 10:00 20:2 0.7 32 8.0 9-s 3/1/94 11:49 20:0 0.7 38 8.0 9-m 2/25/94 10:40 20:6 0.5 40 9:0 3.6 9-m 2/26/94 10:40 20:6 0.5 40 9:0 3.6 9-m 2/28/94 10:00 20:1 0.5 25 9:5 4.0 9-m 2/28/94 10:00 20:1 0.5 25 9:5 4.0 9-m 2/25/94 11:49 19:8 0.5 32 9:5 4.5 9-d 2/25/94 12:54 21:0 0.5 22 5:0 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 11:49 19:8 0.5 32 9:5 4.5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 10:40 20:5 0.6 40 9:5 9-d 2/25/94 11:49 19:8 0.5 32 9:5 4.5 10-s 2/26/94 11:08 19:2 2:1 97 8:5 10-s 2/26/94 11:08 19:2 2:1 97 8:5 10-s 2/26/94 11:08 19:2 2:1 97 8:5 10-s 2/26/94 10:23 18:3 2:0 70 8:5 10-m 2/25/94 11:45 19:8 1.7 74 75 6:5 10-m 2/25/94 11:55 18:0 2.0 66 8.0 10-m 2/25/94 11:55 18:0 2.0 66 8.0 10-m 2/25/94 11:08 19:3 1.8 87 9.0 6.0 10-m 2/25/94 11:55 18:9 1.8 81 9.0 5.8 10-m 2/26/94 11:08 19:3 18.8 87 9.0 5.4	1	1	1	19.8	1.4	<i>7</i> 5	8.0	3.2	
8-d 2/25/94 10:37 19.6 1.6 83 9.0 8-d 2/26/94 10:37 19.6 1.6 83 9.0 8-d 2/27/94 11:15 19.4 1.5 78 8.0 8-d 2/28/94 9:55 19.3 1.5 56 9.5 8-d 3/1/94 11:44 19.3 1.5 60 9.5 9-s 2/25/94 10:40 20.5 0.8 52 8.0 9-s 2/27/94 11:17 20.2 0.7 49 8.0 9-s 2/28/94 10:00 20.2 0.7 32 8.0 9-s 3/1/94 11:49 20.0 0.7 38 8.0 9-m 2/25/94 10:40 20.5 0.8 52 9-m 2/26/94 10:40 20.5 0.7 32 8.0 9-m 2/25/94 10:00 20.2 0.7 38 8.0 9-m 2/25/94 10:00 20.2 0.7 38 8.0 9-m 2/25/94 10:00 20.2 0.7 38 8.0 9-m 2/25/94 10:00 20.5 0.5 40 9.0 3.6 9-m 2/25/94 10:00 20.1 0.5 25 9.5 4.0 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-m 3/1/94 11:49 19.8 0.5 32 9.5 45 9-d 2/25/94 12:54 21.0 0.5 22 5.0 9-d 2/25/94 10:40 20.6 0.6 40 9.5 9-d 2/25/94 11:17 20.3 0.3 39 10.0 9-d 2/25/94 11:17 20.3 0.3 39 10.0 9-d 2/25/94 11:17 20.3 0.3 39 10.0 9-d 2/25/94 11:17 20.3 0.3 39 10.0 9-d 2/25/94 11:17 20.3 0.3 39 10.0 9-d 2/25/94 11:17 20.3 0.3 9.5 9-d 2/27/94 11:17 20.3 0.3 9.5 9-d 2/27/94 11:17 20.3 0.3 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5		1	9:55	19.5	1.3	54	9.5	3.8	
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8-d		2/26/94	10:37	19.6	1.6	83	9.0		
8-d 3/1/94 11:44 19.3 1.5 60 9.5 9-s 2/25/94 12:54 20.7 0.7 34 5.0 9-s 2/26/94 10:40 20.5 0.8 52 8.0 9-s 2/27/94 11:17 20.2 0.7 49 8.0 9-s 2/28/94 10:00 20.2 0.7 32 8.0 9-m 3/1/94 11:49 20.0 0.7 38 8.0 9-m 2/25/94 10:40 20.6 0.5 40 9.0 3.6 9-m 2/26/94 10:40 20.6 0.5 40 9.0 3.6 9-m 2/27/94 11:17 20.3 0.4 39 9.0 4.3 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 12:54 21.0 0.5 22 5.0 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/28/94 10:00 20.2 0.5 24 9.5		2/27/94	11:15	19.4	1.5	<i>7</i> 8	8.0		
9-s		2/28/94	9:55	19.3	1.5	56	9.5	ĺ	
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9-s		2/25/94	12:54	20.7	0.7	34	5.0		n e
9-s	9-s	2/26/94	10:40	20.5	0.8	52	8.0	[₩
9-s 3/1/94 11:49 20.0 0.7 38 8.0 9-m 2/25/94 12:54 20.9 0.5 24 6.5 5.1 9-m 2/26/94 10:40 20.6 0.5 40 9.0 3.6 9-m 2/27/94 11:17 20.3 0.4 39 9.0 4.3 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 10:40 20.5 0.6 40 9.5 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/28/94 10:00 20.1 0.5 22 5.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 9-d 3/1/94 11:50 18.7 1.9 80 6.0 10-s 2/26/94 10:23 18.3 2.0 70 8.5 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4		2/27/94	11:17	20.2	0.7	49	8.0	ĺ	
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9-m 2/26/94 10:40 20.6 0.5 40 9.0 3.6 9-m 2/27/94 11:17 20.3 0.4 39 9.0 4.3 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 10:40 20.5 0.6 40 9.5 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 9-d 3/1/94 11:50 18.7 1.9 80 6.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4		3/1/94	11:49	20.0	0.7	38	8.0	i	
9-m 2/27/94 11:17 20.3 0.4 39 9.0 4.3 9-m 2/28/94 10:00 20.1 0.5 25 9.5 4.0 9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 12:54 21.0 0.5 22 5.0 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/27/94 11:17 20.3 0.3 39 10.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 9-d 3/1/94 11:08 19.2 2.1 97 8.5 10-s 2/26/94 11:08 19.2 2.1 97 8.5 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4		2/25/94	12:54	20.9	0.5	24	6.5	5.1	
9-m 3/1/94 10:00 20.1 0.5 25 9.5 4.0 9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 12:54 21.0 0.5 22 5.0 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/27/94 11:17 20.3 0.3 39 10.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/26/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	,	2/26/94	10:40	20.6	0.5	40	9.0	3.6	
9-m 3/1/94 11:49 19.8 0.5 32 9.5 4.5 9-d 2/25/94 12:54 21.0 0.5 22 5.0 9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/27/94 11:17 20.3 0.3 39 10.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/25/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8	9-m	2/27/94	11:17	20.3	0.4	39	9.0	4.3	
9-d 2/25/94 10:40 20.5 0.6 40 9.5 9-d 2/27/94 11:17 20.3 0.3 39 10.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/25/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:48 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8		2/28/94	10:00	20.1	0.5	25	9.5	4.0	
9-d 2/26/94 10:40 20.5 0.6 40 9.5 9-d 2/27/94 11:17 20.3 0.3 39 10.0 9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/25/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8		3/1/94	11:49	19.8	0.5	32	9.5	4.5	
9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/25/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8	1	2/25/94	12:54	21.0	0.5	22	5.0		
9-d 2/28/94 10:00 20.2 0.5 24 9.5 9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/25/94 11:45 19.7 1.9 80 6.0 10-s 2/26/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4			10:40	20.5	0.6	40	9.5	- 1	
9-d 3/1/94 11:49 19.8 0.5 84 9.5 10-s 2/25/94 11:45 19.7 1.9 80 6.0 10-s 2/26/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	9-d	2/27/94	11:17	20.3	0.3	39	10.0		
10-s 2/25/94 11:45 19.7 1.9 80 6.0 10-s 2/26/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4		2/28/94	10:00	20.2	0.5	24	9.5]	
10-s 2/26/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	9-d	3/1/94	11:49	19.8	0.5	84	9.5		
10-s 2/26/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4									
10-s 2/26/94 11:08 19.2 2.1 97 8.5 10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-s	2/25/94	11:45	19.7	1.9	80	6.0		U.
10-s 2/27/94 11:50 18.7 1.9 84 10.0 10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-s	2/26/94	11:08	19.2	2.1	97	8.5		
10-s 2/28/94 10:23 18.3 2.0 70 8.5 10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-s	2/27/94	11:50	18.7	1.9	84	i		
10-s 3/1/94 10:55 18.0 2.0 66 8.0 10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-s	2/28/94	10:23	18.3					
10-m 2/25/94 11:45 19.8 1.7 74 7.5 6.5 10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-s	3/1/94	10:55	i			I	}	ŀ
10-m 2/26/94 11:08 19.3 1.8 87 9.0 6.0 10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-m	2/25/94						6.5	
10-m 2/27/94 11:50 18.9 1.8 81 9.0 5.8 10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-m	2/26/94	- 1		1				ĺ
10-m 2/28/94 10:23 18.2 2.8 70 9.5 6.4	10-m		- 1				J		
	10-m							- 1	
	10-m	3/1/94	13:12	17.3	2.0	60	9.0		

Sampling			<u> </u>	T	TPH	Press Press	T	
Point	Date	Time	02 (%)	CO2 (%)	1	Pump Press	1 -	1
10-d	2/25/94	11:45	02 (70)		(ррці)	(in Hg)	(C)	Comments no flow
10-d	2/26/94	11:08	19.1	1.4	77	12.0		no now
10-d	2/27/94	11:50	18.0	1.8	81	9.0	1	
10-d	2/28/94	10:23	10.0		-	19.5		no flow
10-d	3/1/94	10:55	1	}	1	19.5		I IO HOW
	0,77,7	1 20.00				<u> </u>		<u> </u>
11-s	2/25/94	11:39	18.5	2.5	92	8.5		
11-s	2/25/94	15:26	18.5	2.5	125	5.0		
11-s	2/25/94	9:43	17.8	2.5	110			
11-s	2/26/94	11:05	17.5	2.7	110	8.5		
11-s	2/27/94	10:20	16.8	2.5	92	9.0		
11-s	2/27/94	11:45	16.5	2.5	91	9.0		
11-s	2/27/94	14:45	16.1	2.7	81	9.0		
11-s	2/28/94	10:19	19.3	2.7	. 70	12.0		
; 11-s	3/1/94	11:31	15.0	2.8	80	8.5		
11-m	2/25/94	11:39	18.0	2.8	100	10.0	4.4	· · · · · · · · · · · · · · · · · · ·
11-m	2/25/94	15:26	18.2	2.8	130	7.0	4.4	
11-m	2/26/94	9:43	16.3	2.8	110	10.0	3.2	
11-m	2/26/94	11:05	16.3	2.8	110	9.5	4.1	
11-m	2/27/94	11:45	14.3	3.1	105	9.5	3.7	
11-m	2/27/94	14:45	14.0	3.2	86	9.0		
11-m	2/28/94	10:19	13.3	3.2	76	10.0	4.0	
11-m	3/1/94	10:48	12.1	3.6	90	10.0	3.9	
11-d	2/25/94	11:39	13.5	3.5	120	10.0		
11-d	2/25/94	15:26	13.2	3.5	140	7.0		
11-d	2/25/94	9:43	8.4	4.3	115	9.5	i	
11-d	2/26/94	11:05	8.3	4.3	115	9.5	- 1	
11-d	2/27/94	10:20	6.5	4.9	110	10.0	1	
11-d	2/27/94	11:45	4.6	5.1	115	10.0	- 1	
11-d	2/27/94	14:45	4.1	5.4	97	9.5		
11-d	2/28/94	9:15	2.5	6.0	110	9.0	4.4	
11-d	3/1/94	10:48	2.9	6.5	86	9.5		
								· · · · · · · · · · · · · · · · · · ·
12-s	2/25/94	11:36	20.5	0.8	45	8.0		
12-s	2/26/94	11:01	20.2	0.8	62	8.0		
12-s	2/27/94	11:30	20.0	0.8	48	9.0		
12-s	2/28/94	10:14	19.7	0.7	35	8.0	l	
12-s	3/1/94	10:43	19.4	0.8	30	8.0		
12-m	2/25/94	11:36	20.4	0.9	49	9.0	1.6	
12-m	2/26/94	11:01	20.0	0.9	64	9.0	1.0	
12-m	2/27/94	11:30	20.0	0.8	49	11.0	1.1	#
12-m	2/28/94	10:14	19.5	0.8	35	13.0	1.4	
12-m	3/1/94	10:43	19.2	0.9	95	9.0	1.3	

Date Time CO2 (%) CO2 (%) TPH Pump Press Temp (C) Comments									
Point Date Time O2 (%) CO2 (%) (ppm) (in Hg) (C) Comments	Sampling		T			TPH	Pump Press	Temp	
12-d	Point	Date	Time	02 (%)	CO2 (%)				1
12-d	12-d	2/25/94	11:36	20.5		111			
12-d	12-d	2/26/94	11:01	19.7	0.9	1			}
12-d	12-d	2/27/94	11:30	18.4	1	1	1	ĺ	Į
12-d 3/1/94 10:43 18.8 1.0 52 10.0 13-s 2/25/94 11:26 20.3 1.1 57 12.0 13-s 2/26/94 10:52 19.7 1.2 76 8.0 13-s 2/27/94 11:25 19.3 1.1 69 9.0 13-s 2/28/94 10:07 19.2 1.0 45 8.5 13-s 3/1/94 10:04 18.8 1.3 50 8.5 13-m 2/25/94 11:26 20.2 1.0 57 10.0 4.6 13-m 2/26/94 10:52 19.5 1.2 75 10.0 4.2 13-m 2/28/94 10:07 19.0 1.0 44 10.0 4.7 13-m 3/1/94 10:34 18.5 1.3 60 9.5 4.2 13-d 2/25/94 11:26 20.8 0.6 30 8.0 13-d 2/25/94 11:25 19.5 1.3 60 9.5 4.2 13-d 2/26/94 10:52 20.0 0.7 52 10.0 13-d 2/26/94 10:52 20.0 0.7 52 10.0 13-d 2/27/94 11:25 19.5 0.4 34 7.0 13-d 2/28/94 10:07 19.2 0.5 28 10.0 13-d 2/28/94 10:34 18.8 0.6 35 10.0 14-s 2/28/94 10:34 18.8 0.6 35 10.0 14-s 2/26/94 10:34 18.8 0.6 35 10.0 14-s 2/28/94 10:04 19.2 1.5 45 9.0 14-s 2/28/94 10:04 19.2 1.5 45 9.0 14-s 2/26/94 11:15 19.0 1.3 66 11.0 5.2 14-m 2/26/94 11:15 19.0 1.3 66 11.0 5.2 14-m 2/26/94 11:15 19.0 1.3 66 9.0 14-m 2/26/94 10:45 19.5 1.5 85 9.0 4.4 14-m 2/26/94 10:45 19.5 1.5 85 9.0 4.4 14-m 2/26/94 11:15 19.0 1.3 60 9.5 4.7 14-m 2/26/94 11:15 19.0 1.3 60 9.5 4.7 14-m 2/26/94 11:15 19.2 1.5 60 9.5 4.7 14-m 3/1/94 9.59 18.9 1.3 60 9.5 4.7 14-m 3/1/94 9.59 18.9 1.3 60 9.5 4.7 14-d 2/25/94 11:15 19.7 1.1 60 10.0 14-d 2/27/94 11:20 19.2 1.0 69 9.0 14-d 2/26/94 10:45 19.7 1.1 60 10.0 14-d 2/27/94 11:20 19.2 1.0 69 9.0 14-d 2/26/94 11:15 19.0 1.1 44 10.0	12-d	2/28/94	10:14	19.2	0.5	1	1		
13-s 2/25/94 11:26 20.3 1.1 57 12.0 13-s 2/26/94 10:52 19.7 1.2 76 8.0 13-s 2/28/94 11:25 19.3 1.1 69 9.0 13-s 2/28/94 10:07 19.2 1.0 45 8.5 13-s 3/1/94 10:04 18.8 1.3 50 8.5 13-m 2/25/94 11:26 20.2 1.0 57 10.0 4.6 13-m 2/26/94 10:52 19.5 1.2 75 10.0 4.2 13-m 2/28/94 10:07 19.0 1.0 44 10:0 4.7 13-m 2/28/94 10:07 19.0 1.0 44 10:0 4.7 13-m 3/1/94 10:34 18.5 1.3 60 9.5 4.2 13-d 2/25/94 11:26 20.8 0.6 30 8.0 13-d 2/26/94 10:52 20.0 0.7 52 10.0 13-d 2/26/94 10:52 20.0 0.7 52 10.0 13-d 2/28/94 10:07 19.2 0.5 28 10.0 13-d 2/28/94 10:07 19.2 0.5 28 10.0 13-d 2/28/94 10:34 18.8 0.6 35 10.0 14-s 2/26/94 10:34 18.8 0.6 35 10.0 14-s 2/26/94 10:34 18.8 0.6 35 10.0 14-s 2/26/94 10:04 19.2 1.5 45 9.0 14-s 2/28/94 10:04 19.2 1.5 45 9.0 14-s 2/28/94 10:04 19.2 1.5 45 9.0 14-s 2/28/94 10:04 19.2 1.5 45 9.0 14-m 2/26/94 10:45 19.5 1.5 85 9.0 4.4 14-m 2/26/94 10:45 19.5 1.5 85 9.0 4.4 14-m 2/26/94 10:45 19.5 1.5 85 9.0 4.4 14-m 2/28/94 10:04 19.0 1.3 50 10.0 4.9 14-m 2/28/94 10:04 19.0 1.3 50 10.0 4.9 14-m 2/28/94 10:04 19.0 1.3 50 10.0 4.9 14-m 3/1/94 9:59 18.9 1.3 60 9.5 4.7 14-d 2/26/94 11:15 19.0 1.3 60 9.5 4.7 14-d 2/26/94 11:15 19.0 1.3 60 9.5 4.7 14-d 2/26/94 11:15 19.0 1.3 60 9.5 4.7 14-d 2/26/94 11:15 19.0 1.3 60 9.5 4.7 14-d 2/26/94 11:15 19.0 1.3 60 9.5 4.7 14-d 2/26/94 11:15 19.0 1.3 60 9.5 4.7	12-d	3/1/94	10:43	18.8	I	1		ĺ	
13-s						1			
13-s	13-s	2/25/94	11:26	20.3	1.1	57	12.0		
13-s	13-s		4	19.7	ı	í			
13-s	13-s	2/27/94		19.3		1	I		
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14-d 2/25/94 11:15 20.5 0.8 42 11.0 14-d 2/26/94 10:45 19.7 1.1 60 10.0 14-d 2/27/94 11:20 19.2 1.0 69 9.0 14-d 2/28/94 10:04 19.0 1.1 44 10.0	14-m				1		I	1	
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	14-d	3/1/94	9:59	18.8	1.2	60	10.0		

Sampling	3	T T			TPH	Pump Press	Temp	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
15-s	2/25/94	10:37	20.5	0.8	60	18.0		low flow
15 - s	2/26/94	11:11	20.5	0.8	60	17.0		low flow
15-s	2/27/94	11:55		-	-	19.0	1	no flow
15-s	2/28/94	10:40	20.5	0.7	40.0	15.0	1	
15-s	3/1/94	9:10	20.0	0.5	22.0	14.5		
15-m	2/25/94	10:37	20.6	0.8	55	9.0	4.2	
15-m	2/26/94	11:11	20.5	0.7	55	9.5	3.1	
15-m	2/27/94	11:55	20.4	0.5	45	9.0		
15-m	2/28/94	10:40	20.5	0.6	39	9.0	3.5	
15-m	3/1/94	9:10	20.0	0.5	30	8.5	3.4	
15-d	2/25/94	10:37	-	-	-	19.5	-	no flow
15-d	2/26/94	11:11	-	-	-	19.5	-	no flow
15-d	2/27/94	11:55	-	-	-	20.0	-	no flow
15-d	2/28/94	10:40	-	-	× •	20.0	-	no flow
15-d	3/1/94							no flow
		-,						
16-s	2/25/94	10:50	20.5	0.8	56	8.0		
16-s	2/26/94	11:20	20.4	0.8	60	8.0		
16-s	2/27/94	12:00	20.3	0.6	47	8.0		
16-s	2/28/94	10:45	20.0	0.7	40	8.0		
16-s	3/1/94	9:13	19.8	0.6	36	8.0		
16-m	2/25/94	10:50	20.6	0.7	48	9.0	6.1	
16-m	2/26/94	11:20	20.5	0.7	50	9.0	5.5	
16-m	2/27/94	12:00	20.3	0.4	46	9.0	5.2	
16-m	2/28/94	10:45	20.0	0.5	30	9.0	59	
16-m	3/1/94	9:13	20.2	0.5	20	8.5	5.5	
16-d	2/25/94	10:50	21.0	0.4	30	9.0	- 1	
16-d	2/26/94	11:20	20.6	0.5	26	9.5		
16-d	2/27/94	12:00	20.5	0.4	28	10.0		
16-d	2/28/94	10:45	20.5	0.4	20	10.0	1	
16-d	3/1/94	9:13	20.2	0.4	30	9.5		
17-s	2 /25 /04	1054		10				
17-s 17-s	2/25/94	10:54	20.3	1.0	73	9.0		
17-s	2/26/94	11:29	20.0	1.1	70	8.0		
	2/27/94	12:10	20.0	1.1	64	10.0	-	
17-s 17-s	2/28/94	10:48	19.8	0.9	42	8.0		
17-s 17-m	3/1/94	9:20	19.7	0.8	40	8.0		
	2/25/94	10:54	20.6	0.7	50	8.0	5.1	
17-m 17-m	2/26/94	11:29	20.3	0.8	51	9.0	4.7	j
17-m	2/27/94	12:10	20.0	0.8	51	9.0	5.1	
	2/28/94	10:48	19.8	0.7	36	9.0	5.0	
17-m	3/1/94	9:20	19.7	0.7	30	9.0	9.7	

C!'-	_					12		
Samplin	-	1_			TPH	Pump Press	-	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
17-d	2/25/94	10:54	21.0	0.4	26	8.0		
17-d	2/26/94	11:29	20.5	0.5	30	9.0	Í	ľ
17-d	2/27/94	12:10	20.2	0.5	35	10.0		
17-d	2/28/94	10:48	19.7	0.5	24	9.5		
17-d	3/1/94	9:20	19.6	0.5	30	10.0		
10 -	2 /25 /04	10:58	10.2	22	110	100		
18-s	2/25/94		19.2	2.3	110	10.0		
18-s	2/26/94	11:33	19.0	2.3	105	9.5		
18-s	2/27/94	12:11	18.9	2.3	85	9.5		
18-s	2/28/94	10:52	18.5	2.0	65	10.0		
18-s	3/1/94	9:24	18.7	1.7	10	10.0		
18-m 18-m	2/25/94	10:58	19.5	2.0	100	10.0	6.1	
18-m	2/26/94	11:33	18.8	2.2	100	9.5	5.3	
18-m	2/27/94 2/28/94	12:11 10:52	18.6	2.2	90	9.0	5.6	
18-m	3/1/94	9:24	18.0 18.5	2.2 1.8	<i>7</i> 0 68	9.5	5.7	
18-d	2/25/94	10:58	20.0	1.3	80	10.0 10.0	3.2	
18-d	2/26/94	11:33	19.0	1.6	86	9.5		
18-d	2/20/94	12:11	18.5	1.6	63	9.5		
18-d	2/28/94	10:52	18.2	1.6	60	9.5		
18-d	3/1/94	9:24	18.4	1.5	63	9.5		
10-u	3/1/34	7.24	10.4	1.5	0.5	3.5		
19-s	2/25/94	11:02	20.3	0.9	70	8.0		
19-s	2/26/94	11:35	19.7	1.0	64	7.0	- 1	
19-s	2/27/94	12:14	19.0	1.0	67	8.0	ŀ	
19-s	2/28/94	10:54	18.8	0.9	43	9.5		
19-s	3/1/94	9:30	18.9	0.9	10	8.0		
19-m	2/25/94	11:02	20.5	0.8	60	13.0	6.3	
19-m	2/26/94	11:35	-	-		18.5		no flow
19-m	2/27/94	12:14	-	-	-	11.0		no flow
19-m	2/28/94	10:54	18.5	1.0	43	19.5	6.0	
19-m	3/1/94	9:30	18.8	0.9	60	16.5	5.7	
19-d	2/25/94	11:02	20.8	0.5	30	9.5		
19-d	2/26/94	11:35	20.8	0.7	46	9.0	1	
19-d	2/27/94	12:14	19.2	0.6	54	9.0		
19-d	2/28/94	10:54	18.5	0.7	33	9.5	[
19-d	3/1/94	9:30	18.6	0.8	24	9.5		,
20-s	2/25/94	10:29	20.5	0.7	44	8.0		
20-s	2/26/94	12:03	20.5	0.7	46	8.0		
20-s	2/27/94	13:31	20.4	0.5	35	8.0		
20-s	2/28/94	11:21	20.3	0.5	30	8.0		
20-s	3/1/94	9:06	20.3	0.5	20	8.0		*:

Sampling Point Date Time O2 (%) CO2 (%) (ppm) (in Fig) (C) Comments	C1:								
20-m 2/25/94 10:29 20:5 0.6 30 17:0 4.3 low flow 2/26/94 12:03 20:5 0.6 32 16:0 3.7 20-m 2/28/94 11:21 20:5 0.4 20 19:0 3.8 20-m 2/28/94 11:21 20:5 0.4 20 19:0 3.8 20-m 2/28/94 11:21 20:5 0.4 20 19:0 3.8 20-m 3/1/94 9:06 20:2 0.3 20 10:5 3.7 20-d 2/25/94 12:03 20:7 0.5 24 9:0 20-d 2/26/94 12:03 20:7 0.5 24 9:0 20-d 2/28/94 11:21 20:5 0.3 17 9:0 20-d 2/28/94 11:21 20:5 0.3 14 9:0 20-d 2/28/94 11:27 20:0 0.5 34 8.5 21-s 2/26/94 11:57 20:0 0.5 34 8.5 21-s 2/28/94 11:17 20:1 0.5 26 8.0 8:5 21-s 2/28/94 11:17 20:1 0.5 26 8.0 8:5 21-s 2/28/94 11:17 20:2 0.3 40 8:5 21-s 2/28/94 11:17 20:2 0.3 40 8:5 21-m 2/26/94 11:57 20:6 0.5 32 11:0 2.3 21-m 2/26/94 11:57 20:6 0.5 32 11:0 2.3 21-m 2/26/94 11:17 20:5 0.3 18 11:0 3.0 21-m 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-m 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-m 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-m 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-m 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-m 3/1/94 9:01 20:3 0.3 25 11:0 2.6 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-d 2/28/94 11:17 20:5 0.3 15 11:0 2.6 21-d 2/28/94 11:17 20:5 0.3 15 10:5 21-d 2/28/94 11:17 20:5 0.3 10:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0		1		1		1		Temp	
20-m 2/26/94 12:03 20.5 0.6 32 16.0 3.7								(C)	Comments
20-m 2/27/94 13:31 20:5 0.6 22 19:0 3.8	1	1	4			1			low flow
20-m 2/28/94 11:21 20.5 0.4 20 19.0 3.8 20-m 3/1/94 9:06 20.2 0.3 20 10.5 3.7 20-d 2/25/94 10:29 21.0 0.5 20 20-d 2/26/94 12:03 20.7 0.5 24 9.0 20-d 2/27/94 13:31 20.7 0.3 17 9.0 20-d 2/28/94 11:21 20.5 0.3 14 9.0 20-d 2/28/94 11:21 20.5 0.3 14 9.0 20-d 3/1/94 9:06 20.2 0.2 10 9.5 21-s 2/26/94 11:57 20.0 0.5 34 8.5 21-s 2/28/94 11:17 20.1 0.5 26 8.0 21-s 2/28/94 11:17 20.1 0.5 26 8.0 21-m 2/25/94 10:19 20.8 0.5 25 13.0 3.1 21-m 2/25/94 11:57 20.6 0.5 32 11.0 2.3 21-m 2/26/94 11:57 20.6 0.5 32 11.0 2.3 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-d 2/25/94 10:19 21.0 0.3 15 21-d 2/25/94 11:57 20.8 0.4 14 9.5 21-d 2/25/94 11:17 20.7 0.1 6 9.5 21-d 2/26/94 11:17 20.7 0.1 6 9.5 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 2/25/94 10:19 20.8 0.4 14 9.5 21-d 2/27/94 13:26 20.9 0.3 10 9.0 21-d 2/25/94 11:17 20.7 0.1 6 9.5 21-d 2/25/94 11:10 20.3 0.8 44 8.0 22-s 2/26/94 11:50 20.3 0.8 44 8.0 22-s 2/26/94 11:50 20.3 0.8 44 8.0 22-s 2/26/94 11:10 20.5 0.6 30 9.0 22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/25/94 10:16 20.8 0.5 27 9.0 - temp not reading 22-m 2/25/94 10:16 20.8 0.4 22.0 10.0 22-d 2/25/94 10:15 20.3 0.4 15.0 10.0 22-d 2/25/94 10:16 20.8 0.4 22.0 10.0 22-d 2/25/94 10:16 20.8 0.4 22.0 10.0 22-d 2/25/94 10	1	1	1	1	1	1	16.0	3.7	
20-m 3/1/94 9:06 20.2 0.3 20 10.5 3.7	i	1	1	1	1	1	19.0	3.8	
20-d 2/25/94 10:29 21.0 0.5 20 20-d 2/26/94 12:20 20.7 0.5 24 9.0 20-d 2/27/94 13:31 20.7 0.3 17 9.0 20-d 2/27/94 13:31 20.7 0.3 14 9.0 20-d 3/1/94 9:06 20.2 0.2 10 9.5 20-d 3/1/94 9:06 20.2 0.2 10 9.5 20-d 3/1/94 9:06 20.2 0.2 10 9.5 20-d 3/1/94 9:06 20.2 0.5 34 8.5 21-s 2/26/94 11:57 20.0 0.5 34 8.5 21-s 2/28/94 11:17 20.1 0.5 26 8.0 21-s 2/28/94 11:17 20.1 0.5 26 8.0 21-m 2/25/94 10:19 20.8 0.5 25 13.0 3.1 21-m 2/26/94 11:57 20.6 0.5 32 11.0 2.3 21-m 2/26/94 11:17 20.5 0.3 18 11.0 3.0 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 2/28/94 11:17 20.5 0.3 18 11.0 2.6 21-d 2/25/94 10:19 21.0 0.3 15 21-d 2/25/94 11:57 20.8 0.4 14 9.5 21-d 2/26/94 11:57 20.8 0.4 14 9.5 21-d 2/26/94 11:57 20.8 0.4 14 9.5 21-d 2/26/94 11:17 20.7 0.1 6 9.5 21-d 2/28/94 11:12 20.7 0.1 6 9.5 21-d 3/1/94 9:01 20.5 0.1 10 10.0 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.5 28 9.5 24 9.0 - temp not reading 22-m 2/25/94 10:16 20.8 0.5 24 9.0 - temp not reading 22-m 2/25/94 10:16 20.8 0.4 22.0 10.0 22-d 2/28/94 11:12 20.8 0.4 15.0 10.0 20.0 - temp not reading 22-d 2/28/94 11:12 20.8 0.				1	0.4	20	19.0	3.8	
20-d 2/26/94 12:03 20:7 0.5 24 9:0 20-d 2/27/94 13:31 20:7 0.3 17 9:0 20-d 2/28/94 11:21 20:5 0.3 14 9:0 9:0 20-d 3/1/94 9:06 20:2 0.2 10 9:5 20-d 3/1/94 9:06 20:2 0.2 10 9:5 20-d 3/1/94 9:06 20:2 0.2 10 9:5 20-d 3/1/94 9:06 20:5 0.7 40 8:5 8:5 21-s 2/26/94 11:57 20:0 0.5 34 8:5 21-s 2/28/94 11:17 20:1 0.5 26 8:0 21-s 3/1/94 9:01 20:2 0.3 40 8:5 21-s 2/28/94 11:17 20:1 0.5 26 8:0 21-s 3/1/94 9:01 20:8 0.5 25 13:0 3.1 21-m 2/26/94 11:57 20:6 0.5 32 11:0 2.3 21-m 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-m 2/28/94 11:17 20:5 0.3 18 11:0 3.0 21-m 2/25/94 10:19 21:0 0.3 15 11:0 2:6 21-d 2/25/94 10:19 21:0 0.3 15 21-d 2/26/94 11:57 20:8 0.4 14 9:5 21-d 2/26/94 11:57 20:8 0.4 14 9:5 21-d 2/28/94 11:17 20:7 0.1 6 9:5 21-d 2/28/94 11:17 20:7 0.1 6 9:5 21-d 2/28/94 11:17 20:7 0.1 6 9:5 21-d 3/1/94 9:01 20:5 0.1 10 10:0 22-s 2/28/94 11:15 20:3 0.8 44 8:0 22-s 2/25/94 11:15 20:3 0.8 44 8:0 22-s 2/25/94 11:15 20:3 0.8 44 8:0 22-s 2/25/94 11:15 20:3 0.8 42 8:0 22-s 2/25/94 11:15 20:3 0.5 25 9:5 4:1 22-s 2/25/94 11:15 20:3 0.5 25 9:5 4:1 22-s 2/28/94 11:15 20:0 0.7 35 7:5 22-s 2/28/94 11:15 20:0 0.7 35 7:5 22-s 2/28/94 11:15 20:0 0.7 36 8:0 22-m 2/25/94 10:16 20:8 0.5 25 9:5 4:1 22-m 2/25/94 10:16 20:8 0.5 25 9:5 4:1 22-m 2/25/94 10:16 20:8 0.5 25 9:5 4:1 22-m 2/28/94 11:15 20:2 0.5 24 9:0 -1 temp not reading 22-m 2/28/94 11:15 20:2 0.5 24 9:0 -1 temp not reading 22-d 2/28/94 11:15 20:8 0.4 15:0 10:0 10:0 22-d 2/28/94 11:15 20:8 0.2 13:0 10:0 22-d 2/28/94				20.2	0.3	20	10.5	3.7	
20-d 2/27/94 13:31 20.7 0.3 17 9.0 20-d 2/28/94 11:21 20.5 0.3 14 9.0 9.5 20-d 3/1/94 9:06 20.2 0.2 10 9.5 20-d 3/1/94 9:06 20.2 0.2 10 9.5 20-d 3/1/94 9:06 20.2 0.2 10 9.5 20-d 2/26/94 11:57 20.0 0.5 34 8.5 21-s 2/26/94 11:17 20.1 0.5 26 8.0 21-s 2/28/94 11:17 20.1 0.5 26 8.0 21-s 3/1/94 9:01 20.2 0.3 40 8.5 21-s 3/1/94 9:01 20.2 0.3 40 8.5 21-m 2/25/94 10:19 20.8 0.5 32 11.0 2.3 21-m 2/26/94 11:57 20.6 0.5 32 11.0 2.3 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 3/1/94 9:01 20.3 0.3 25 11.0 2.6 2.6 21-d 2/25/94 10:19 21.0 0.3 15 21-d 2/26/94 11:57 20.8 0.4 14 9.5 21-d 2/26/94 11:57 20.8 0.4 14 9.5 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 3/1/94 9:01 20.5 0.1 10 10.0 22-s 2/26/94 11:50 20.3 0.8 44 8.0 22-s 2/26/94 11:50 20.3 0.8 44 8.0 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 2/28/94 11:12 20.0 0.7 36 8.0 22-m 2/25/94 13:21 20.1 0.8 42 8.0 22-s 3/1/94 8:57 20.2 0.7 36 8.0 22-m 2/25/94 13:21 20.4 0.5 27 9.0 - temp not reading 22-m 2/28/94 11:12 20.2 0.5 24 9.0 - temp not reading 22-m 2/28/94 11:150 20.8 0.4 22.0 10.0 22-d 2/28/94 11:12 20.8 0.4 22.0 10.0 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/26/94 11:12 20.3 0.4 15.0 10.0 22-d 2/26/94 11:12 20.3 0.4 15.0	,		10:29	21.0	0.5	20			
20-d 2/28/94 11:21 20.5 0.3 14 9.0 9.0	1 1		12:03	20.7	0.5	24	9.0		
20-d 3/1/94 9:06 20.2 0.2 10 9:5		2/27/94	13:31	20.7	0.3	17	9.0		
21-s			11:21	20.5	0.3	14	9.0		
21-s	20-d	3/1/94	9:06	20.2	0.2	10	9.5		ł
21-s									
21-s 2/27/94 13:26 20.5 0.5 33 7.0 21-s 2/28/94 11:17 20.1 0.5 26 8.0 21-s 3/1/94 9:01 20.2 0.3 40 8.5 21-m 2/25/94 10:19 20.8 0.5 25 13.0 3.1 21-m 2/26/94 11:57 20.6 0.5 32 11.0 2.3 21-m 2/28/94 11:17 20.5 0.3 18 11.0 2.8 21-m 2/28/94 10:19 21.0 0.3 15 11.0 2.6 21-d 2/25/94 10:19 21.0 0.3 15 11.0 2.6 21-d 2/26/94 11:57 20.8 0.4 14 9.5 9.5 21-d 2/27/94 13:26 20.9 0.3 10 9.0 21-d 21-d 2/28/94 11:17 20.7 0.1 6 9.5 9.5 21-d 3/1/94 9:01 20.5 0.7 40		2/25/94	10:19	20.5	0.7	40	8.5		
21-s 2/28/94 11:17 20.1 0.5 26 8.0 21-m 2/25/94 10:19 20.8 0.5 25 13.0 3.1 21-m 2/26/94 11:57 20.6 0.5 32 11.0 2.3 21-m 2/27/94 13:26 20.8 0.4 25 9.0 2.8 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 3/1/94 9:01 20.3 0.3 25 11.0 3.0 21-m 3/1/94 9:01 20.3 0.3 15 11.0 3.0 21-d 2/25/94 10:19 21.0 0.3 15 11.0 2.6 21-d 2/26/94 11:57 20.8 0.4 14 9.5 21-d 2/27/94 13:26 20.9 0.3 10 9.0 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 3/1/94 9:01 20.5 0.1 10 10.0 10.0 10.0 10.0			11:57	20.0	0.5	34	8.5		
21-s 3/1/94 9:01 20.2 0.3 40 8.5 21-m 2/25/94 10:19 20.8 0.5 25 13.0 3.1 21-m 2/26/94 11:57 20.6 0.5 32 11.0 2.3 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 2/28/94 11:17 20.5 0.3 18 11.0 3.0 21-m 3/1/94 9:01 20.3 0.3 25 11.0 2.6 21-d 2/25/94 10:19 21.0 0.3 15 21-d 2/26/94 11:57 20.8 0.4 14 9.5 21-d 2/26/94 11:17 20.7 0.1 6 9.5 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 3/1/94 9:01 20.5 0.7 40 8.5 22-s 2/26/94 11:12 20.0 0.7 36 8		2/27/94	13:26	20.5	0.5	33	7.0		
21-m		2/28/94	11:17	20.1	0.5	26	8.0		
21-m			9:01	20.2	0.3	40	8.5		
21-m		2/25/94	10:19	20.8	0.5	25		3.1	
21-m	I	2/26/94	11:57	20.6	0.5	32	11.0		
21-m	21-m	2/27/94	13:26	20.8	0.4	25			
21-m 3/1/94 9:01 20.3 0.3 25 11.0 2.6 21-d 2/25/94 10:19 21.0 0.3 15 21-d 2/26/94 11:57 20.8 0.4 14 9.5 21-d 2/27/94 13:26 20.9 0.3 10 9.0 21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 3/1/94 9:01 20.5 0.1 10 10.0 22-s 2/25/94 11:50 20.3 0.8 44 8.0 22-s 2/27/94 13:21 20.1 0.8 42 8.0 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 3/1/94 8:57 20.2 0.7 36 8.0 22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/26/94 11:50 20.5 0.6	21-m	2/28/94	11:17	20.5	0.3	18			
21-d	21-m	3/1/94	9:01	20.3	0.3	25	I		
21-d	21-d	2/25/94	10:19	21.0	0.3	15			
21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 3/1/94 9:01 20.5 0.1 10 10.0 22-s 2/25/94 10:16 20.5 0.7 40 8.5 22-s 2/26/94 11:50 20.3 0.8 44 8.0 22-s 2/27/94 13:21 20.1 0.8 42 8.0 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 3/1/94 8:57 20.2 0.7 36 8.0 22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/26/94 11:50 20.5 0.6 30 9.0 - temp not reading 22-m 2/28/94 11:12 20.2 0.5 24 9.0 - temp not reading 22-m 3/1/94 8:57 20.0 0.5 28 9.5 22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/26/94 11:50 20.8 0.2 <t< td=""><td>1</td><td>2/26/94</td><td>11:57</td><td>20.8</td><td>0.4</td><td>14</td><td>9.5</td><td>- 1</td><td></td></t<>	1	2/26/94	11:57	20.8	0.4	14	9.5	- 1	
21-d 2/28/94 11:17 20.7 0.1 6 9.5 21-d 3/1/94 9:01 20.5 0.1 10 10.0 22-s 2/25/94 10:16 20.5 0.7 40 8.5 22-s 2/26/94 11:50 20.3 0.8 44 8.0 22-s 2/27/94 13:21 20.1 0.8 42 8.0 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 3/1/94 8:57 20.2 0.7 36 8.0 22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/26/94 11:50 20.5 0.6 30 9.0 - 22-m 2/27/94 13:21 20.4 0.5 27 9.0 - temp not reading 22-m 3/1/94 8:57 20.0 0.5 28 9.5 - 22-m 3/1/94 8:57 20.0 0.5 28 9.5 - 22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.	21-d	2/27/94	13:26	20.9	0.3	10	9.0	i	
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22-s 2/26/94 11:50 20.3 0.8 44 8.0 22-s 2/27/94 13:21 20.1 0.8 42 8.0 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 3/1/94 8:57 20.2 0.7 36 8.0 22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/26/94 11:50 20.5 0.6 30 9.0 - temp not reading 22-m 2/28/94 11:12 20.2 0.5 24 9.0 - temp not reading 22-m 3/1/94 8:57 20.0 0.5 28 9.5 22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0			· *						
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22-s 2/27/94 13:21 20.1 0.8 42 8.0 22-s 2/28/94 11:12 20.0 0.7 35 7.5 22-s 3/1/94 8:57 20.2 0.7 36 8.0 22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/26/94 11:50 20.5 0.6 30 9.0 - temp not reading 22-m 2/27/94 13:21 20.4 0.5 27 9.0 - temp not reading 22-m 2/28/94 11:12 20.2 0.5 24 9.0 - temp not reading 22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0	22-s	2/26/94	11:50	20.3	0.8	,			
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22-m 2/25/94 10:16 20.8 0.5 25 9.5 4.1 22-m 2/26/94 11:50 20.5 0.6 30 9.0 22-m 2/27/94 13:21 20.4 0.5 27 9.0 - temp not reading 22-m 2/28/94 11:12 20.2 0.5 24 9.0 - temp not reading 22-m 3/1/94 8:57 20.0 0.5 28 9.5 - 22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0	22-s	3/1/94	8:57	20.2			1		
22-m 2/26/94 11:50 20.5 0.6 30 9.0 22-m 2/27/94 13:21 20.4 0.5 27 9.0 - temp not reading 22-m 2/28/94 11:12 20.2 0.5 24 9.0 - temp not reading 22-m 3/1/94 8:57 20.0 0.5 28 9.5 22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0	22-m	2/25/94						4.1	
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22-m 3/1/94 8:57 20.0 0.5 28 9.5 22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0	22-m			1	1	- 1			• • • •
22-d 2/25/94 10:16 21.0 0.3 15 10.5 22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0	22-m		,	,			I .		
22-d 2/26/94 11:50 20.8 0.4 22.0 10.0 22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0	22-d								
22-d 2/27/94 13:21 20.8 0.2 13.0 10.0 22-d 2/28/94 11:12 20.3 0.4 15.0 10.0	22-d						- 1		
22-d 2/28/94 11:12 20.3 0.4 15.0 10.0			1						
20.1							I .		
	22-d	3/1/94	8:57	20.3	0.4	25.0	12.5		

Samplir	ng		T -		TPH	Pump Press	s Tem	7
Point	- 1	Time	02 (%)	CO2 (%)		(in Hg)	(C)	- 1
23-s	2/25/94	10:09	20.8	0.6	30	8.5	1 (0)	Comments
23-s	2/26/94	11:46	20.3	0.7	40	8.5		
23-s	2/27/94	13:17	20.0	0.6	33	8.5	1	
23-s	2/28/94	11:07	19.7	0.5	30	8.0	1	
23-s	3/1/94	8:55	20.3	0.5	30	5.0	ĺ	İ
23-m	2/25/94	10:09	21.0	0.4	20	13.0	4.1	
23-m	2/26/94	11:46	20.6	0.5	33	12.5	3.1	
23-m	2/27/94	13:17	20.4	0.4	20	11.5	3.4	
23-m	2/28/94	11:07	20.0	0.3	22	12.5	3.3	
23-m	3/1/94	8:55	20.2	0.3	36	13.0	3.4	
23-d	2/25/94	10:09	21.0	0.4	20 .	9.5	3.1	
23-d	2/26/94	11:46	20.6	0.4	25	10.0		
23-d	2/27/94	13:17	20.5	0.4	20	10.0		
23-d	2/28/94	11:07	20.0	0.3	20	9.0		
23-d	3/1/94	8:55	20.3	0.3	26	26.0	10.0	
			<u></u>					<u></u>
24-s	2/25/94	9:59	20.3	1.0	60	8.5		
24-s	2/26/94	11:40	20.0	1.0	67	8.0		
24-s	2/27/94	11:13	20.0	1.0	52	9.0		
24-s	2/28/94	11:03	19.5	0.8	40	8.0		
24-s	3/1/94	8:52	19.6	1.0	47	10.0		
24-m	2/25/94	9:59	20.3	1.0	70	10.0	6.1	
24-m	2/26/94	11:40	20.0	0.9	68	9.0	4.9	
24-m	2/27/94	11:13	20.0	0.9	50	9.0	5.1	
24-m	2/28/94	11:03	19.2	0.9	40	13.0	5.1	Į
24-m	3/1/94	8:52	18.9	0.8	47	9.5	4.8	
24-d	2/25/94	9:59	20.5	0.8	40	9.5		
24-d	2/26/94	11:40	20.2	0.8	58	9.0		
24-d	2/27/94	11:13	20.0	0.8	44	9.5		
24-d	2/28/94	11:03	19.4	0.7	36	9.0		
24-d	3/1/94	8:52	19.8	0.7	40	9.5		
25 1	2422							
25-s	2/25/94	9:26	20.1	1.1	62	9.0		
25-s	2/26/94	13:30	20.0	1.1	66	9.0		
25-s	2/27/94	13:36	20.0	1.0	60	10.0		
25-s	2/28/94	11:26	20.0	0.8	46	8.5	ļ	
25-s	3/1/94	8;08	19.8	1.0	48	9.0		
25-m	2/25/94	9:26	20.5	0.7	40	18.0		low flow
25-m	2/26/94	13:30	20.5	0.7	38	17.5	4.9	low flow
25-m	2/27/94	13:36	20.4	0.7	35	17.0	5.0	
25-m	2/28/94	11:26	20.6	0.4	25	16.0	4.8	
25-m	3/1/94	8:08	20.2	0.5	30	18.0	5.0	

Point Date Time O2 (%) CO2 (%) (ppm) (in Hg) (in Hg) (C)									
Point Date Time O2 (%) CO2 (%) (ppm) (in Hg) (C) Comments 25-d 2/25/94 9:26 20.8 0.5 20 10.0 25-d 2/26/94 13:30 20.6 0.5 36 10.0 25-d 2/27/94 13:36 20.8 0.3 24 10.0 25-d 2/28/94 11:26 20.8 0.2 14 9.5 25-d 3/1/94 8:08 20.2 0.3 20 10.0 26-s 2/25/94 9:34 19.0 - no flow 26-s 2/26/94 13:34 19.0 - no flow 26-s 2/28/94 11:30 20.0 0.7 35 18.0 26-s 2/28/94 11:30 20.0 0.7 35 18.0 26-s 3/1/94 8:12 19.6 0.8 40 18.0 26-m 2/25/94 9:34 20.6 0.6 34 10.0 5.2 26-m 2/26/94 13:34 20.5 0.6 40 10.0 4.5 26-m 2/26/94 13:34 20.5 0.6 40 10.0 4.9 26-m 2/28/94 11:30 20.5 0.2 14 9.5 4.6 26-m 2/28/94 11:30 20.5 0.2 14 9.5 4.6 26-m 2/27/94 13:42 20.4 0.5 24 10.0 4.9 26-m 3/1/94 8:12 19.5 0.5 20 9.5 4.6 26-d 2/26/94 13:34 20.5 0.5 34 9.5 26-d 2/26/94 13:34 20.5 0.5 34 9.5 26-d 2/25/94 9:34 20.8 0.4 27 10.0 26-d 2/25/94 9:34 20.8 0.4 27 10.0 26-d 2/25/94 13:34 20.5 0.5 34 9.5 26-d 2/25/94 13:34 20.5 0.5 34 9.5 26-d 2/25/94 13:34 20.5 0.5 34 9.5 26-d 2/25/94 13:34 20.9 0.5 20 9.5 4.6 27-s 2/26/94 13:34 20.6 0.2 10 9.5 27-s 2/28/94 11:30 20.6 0.2 10 9.5 27-s 2/28/94 11:30 20.6 0.2 10 9.5 27-s 2/26/94 13:37 19.5 1.6 80 10.0 27-s 2/26/94 13:37 19.5 1.6 80 10.0 27-s 2/26/94 13:37 19.5 1.6 80 10.0 27-s 2/26/94 13:37 19.5 1.6 80 10.0 27-s 2/26/94 13:37 19.5 1.6 80 10.0 27-s 2/26/94 13:37 19.5 1.6 80 10.0 27-s 2/28/94 11:44 19.0 1.1 60 10.0 27-s 2/25/94 9:42 20.1 12 63 9.0 4.8 27-m 2/25/94 9:42 20.1 12 63 9.0 4.8 27-m 2/25/94 9:42 20.1 12 63 9.0 4.8 27-m 2/25/94 9:42 20.1 12 63 9.0 4.8 27-m 2/25/94 9:42 20.1 12 63 9.0 4.8 27-m 2/25/94 9:42 20.1 12 63 9.0 4.8 27-m 2/25/94 9:42 20.1 12 63 9.0 4.8 27-m 2/25/94 9:42 20.1 12 63 9.0 4.0 27-m 2/25/94 9:42 20.1 10.0 9.5 27-m 2/25/94 9:42 20.1 10.0 9.5 27-m 2/25/94 9:42 20.1 10.0 9.5 27-m 2/25/94 9:42 20.1 10.0 9.5 27-m 2/25/94 9:42 20.1 10.0 9.5 27-m 2/25/94 9:42 20.1 10.0 9.5 27-m 2/25/94 9:42 20.1 10.0 9.5 27-m 2/25/94 9:42 20.1 10.0 9.5 27-d 2/26/94 13:37 19.7 0.7 50 10.0 27-d 2/26/94 13:48 19.1 0.8 45 10.0 27-d 2/26/94 11:44 19.2 0.7 43 10.0	Samplin	g				TPH	Pump Pres	s Temp	T
25-d 2/25/94 9.26 20.8 0.5 20 10.0 25-d 2/26/94 13:30 20.6 0.5 36 10.0 25-d 2/27/94 13:46 20.8 0.3 24 10.0 25-d 2/27/94 13:46 20.8 0.2 14 9.5 25-d 3/1/94 8:08 20.2 0.3 20 10.0 25-d 3/1/94 8:08 20.2 0.3 20 10.0 25-d 3/1/94 8:08 20.2 0.3 20 10.0 25-d 3/1/94 8:08 20.2 0.3 20 10.0 25-d 3/1/94 8:12 20.3 0.8 47 18.0 2-6-s 2/26/94 13:34 20.0 0.7 35 18.0 26-s 2/28/94 11:30 20.0 0.7 35 18.0 26-s 3/1/94 8:12 19.6 0.8 40 18.0 25-d 3/1/94 8:12 19.6 0.8 40 18.0 25-d 2/26/94 13:34 20.5 0.6 40 10.0 4.5 26-m 2/25/94 9.34 20.6 0.6 34 10.0 4.9 26-m 2/28/94 11:30 20.5 0.2 14 9.5 4.6 26-m 2/28/94 11:30 20.5 0.2 14 9.5 4.6 26-m 3/1/94 8:12 19.5 0.5 20 9.5 4.6 26-d 2/25/94 9.34 20.8 0.4 27 10.0 4.9 26-m 3/1/94 8:12 19.5 0.5 20 9.5 4.6 26-d 2/28/94 13:34 20.5 0.5 34 9.5 26-d 2/28/94 13:34 20.5 0.5 34 9.5 26-d 2/28/94 13:34 20.5 0.5 9.5 34 9.5 26-d 2/28/94 13:34 20.5 0.5 0.5 34 9.5 26-d 2/28/94 13:34 20.8 0.4 27 10.0 29.5 26-d 2/28/94 13:34 20.5 0.5 0.5 34 9.5 26-d 2/28/94 13:37 19.5 1.6 80 10.0 29.5 27-s 2/28/94 13:38 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 13:48 19.2 1.4 65 9.0 29.5 27-s 2/28/94 11:44 19.0 1.1 60 10.0 27-s 2/25/94 9:42 20.1 1.2 63 9.0 4.8 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.8 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.8 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.8 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.8 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 4.0 27-m 2/25/94 9:42 20.1 1.2 63 9.0 3.7 27-m 2/25/94 9:42 20.1 1.2 63 9.0 3.7 27-m 2/25/94 9:42 20.1 1.3 50 9.0 3.7 27-d 2/25/		Date	Time	O2 (%)	CO2 (%	ſ			
25-d	25-d	2/25/94	9:26	20.8	0.5		 	1 (0)	COMMICTIO
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27-m 2/27/94 13:48 18.7 1.4 60 9.0 4.0 27-m 2/28/94 11:44 18.6 1.2 60 9.5 4.1 27-m 3/1/94 8:16 17.8 1.3 50 9.0 3.7 27-d 2/25/94 9:42 20.5 0.5 32 10.0 27-d 2/26/94 13:37 19.7 0.7 50 10.0 27-d 2/27/94 13:48 19.1 0.8 45 10.0 27-d 2/28/94 11:44 19.2 0.7 43 10.0		2/26/94	13:37	19.3	1.3	75	1		1
27-m 2/28/94 11:44 18.6 1.2 60 9.5 4.1 27-m 3/1/94 8:16 17.8 1.3 50 9.0 3.7 27-d 2/25/94 9:42 20.5 0.5 32 10.0 27-d 2/26/94 13:37 19.7 0.7 50 10.0 27-d 2/27/94 13:48 19.1 0.8 45 10.0 27-d 2/28/94 11:44 19.2 0.7 43 10.0	I		13:48	18.7	1.4	60		1	ļ
27-m 3/1/94 8:16 17.8 1.3 50 9.0 3.7 27-d 2/25/94 9:42 20.5 0.5 32 10.0 27-d 2/26/94 13:37 19.7 0.7 50 10.0 27-d 2/27/94 13:48 19.1 0.8 45 10.0 27-d 2/28/94 11:44 19.2 0.7 43 10.0		2/28/94	11:44	18.6	1.2	60	I		[
27-d 2/25/94 9:42 20.5 0.5 32 10.0 27-d 2/26/94 13:37 19.7 0.7 50 10.0 27-d 2/27/94 13:48 19.1 0.8 45 10.0 27-d 2/28/94 11:44 19.2 0.7 43 10.0		3/1/94	8:16	17.8	1.3	- 1			
27-d 2/26/94 13:37 19.7 0.7 50 10.0 27-d 2/27/94 13:48 19.1 0.8 45 10.0 27-d 2/28/94 11:44 19.2 0.7 43 10.0		2/25/94	9:42	20.5	0.5				
27-d 2/27/94 13:48 19.1 0.8 45 10.0 27-d 2/28/94 11:44 19.2 0.7 43 10.0	1	2/26/94	13:37				1	-	
27-d 2/28/94 11:44 19.2 0.7 43 10.0		2/27/94	13:48	19.1			1	-	
27 4 24 44 44 44 44 44 44 44 44 44 44 44 4	I	2/28/94	11:44				1	1	
	27-d	3/1/94	8:16						

Sampl	inal		,					
Poin		T			TPH	¥		ıp
28-s		9:47		<u> </u>) (C)	Comments
28-s	-,,			1	110	100	-	
28-s	_, _, _, , ,			1	140	6.0		
28-s	_,,,		15.0		140	9.0	-	
28-s		13:40	1	1	130	8.5		
28-s		9:40 13:55	14.1	4.2	115	9.0		
28-s	2/28/94	11:47	1	4.0	110			
28-s	3/1/94	8:20		3.7	96	8.0		
28-m		9:47	13.7	4.1	84	8.0		
28-m	-,,	1	16.2	4.2	110	9.0	7.6	
28-m		15:13 9:29	16.3	3.9	150	5.5	7.1	
28-m	_, _, _, _	13:40	15.3	4.2	140	9.5	6.3	
28-m	2/27/94	9:40	14.9	4.2	120	9.0	6.6	
28-m	2/27/94	1	14.6	4.2	120	9.0	6.7	
28-m	2/28/94	13:55	14.7	4.2	100	10.0	6.5	
28-m	3/1/94	11:47	14.5	3.5	92	9.0	6.8	
28-d	2/25/94	8:20 9:47	14.2	4.2	85	9.0	6.6	
28-d	2/26/94	9:47	17.8	2.3	90	13.0		
28-d	2/26/94	13:40	-	-	-	19.0	-	no flow
28-d	2/27/94	9:40	-	-	-	19.5	-	no flow
28-d	2/27/94	1	-	-	-	19.0	-	no flow
28-d	2/28/94	13:55 11:47	-	-	-	19.0	-	no flow
28-d	3/1/94	11:47	-	•	-	19.0	-	no flow
	3/1/34	11:47						no flow
29-s	2/25/94	9:49			1			
29-s	2/26/94	9:34	-	-	-	20.0	-	no flow
29-s	2/26/94	13:43	-	-	-	19.0	-	no flow
29-s	2/27/94	9:47	100	1.0		19.0	-	no flow
29-s	2/27/94	14:12	18.8	1.3	74	17.0		low flow
29-s	2/28/94	11:51	18.8 18.0	1.3	60	10.0		
29-s	3/1/94	8:24	18.2	1.3	60	8.0	1	
29-m	2/25/94	9:49	18.3	1.4	60	9.0		
29-m	2/25/94	15:17	19.3	1.9	80	9.5	5.4	
29-m	2/26/94	9:34	18.0	1.8	110	5.0	5.1	
29-m	2/26/94	13:43	17.4	1.9	94	9.0	5.0	
29-m	2/27/94	9:47	16.8	2.0	92	9.5	4.6	
29-m	2/27/94	14:12		2.0	86	9.0		1
29-m	2/28/94	11:51	16.2 15.6	2.0	72	10.0	4.5	-
29-m	3/1/94	8:24	- 1	2.0	74	9.0	4.9	
	3/1/74	0:24	16.7	2.2	74	9.5	4.7	

	1.140							
Sampling					TPH	Pump Press	Tem	0
Point	Date	Time	02 (%)	CO2 (%)		(in Hg)	(C)	Comments
29-d	2/25/94	9:49	20.3	0.7	33	10.0	1 (0)	COMMITTEE
29-d	2/25/94	15:17	20.2	0.7	60	6.0		
29-d	2/26/94	9:34	17.5	1.8	95	10.0		
29-d	2/26/94	13:43	17.0	2.0	92	9.5		
29-d	2/27/94	9:47	16.0	2.5	94	9.0	[
29-d	2/27/94	14:12	15.8	2.5	80	11.0		
29-d	2/28/94	11:51	14.5	2.8	84	9.5	1	
29-d	3/1/94	8:24	15.8	3.0	84	10.0		
					•		·	
30-s	2/25/94	9:15	20.5	1.0	80	11.0		
30-s	2/26/94	14:09	20.5	1.0	55	8.0		8
30-s	2/27/94	14:36	20.5	1.0	42	8.0		
30-s	2/28/94	11:56	20.7	0.7	37	8.5		
30-s	3/1/94	8;05	20.5	0.7	36	9.0		
30-m	2/25/94	9:15	20.5	1.0	80	17.0	1.9	
30-m	2/26/94	14:09	20.6	1.0	54	17.0	1.9	low flow
30-m	2/27/94	14:36	20.6	1.0	44	16.5	2.7	
30-m	2/28/94	11:56	20.7	0.7	40	17.0	2.8	
30-m	3/1/94	8:05	20.4	0.7	38	17.0	2.6	
30-d	2/25/94	9:15	20.5	1.0	80	10.0		
30-d	2/26/94	14:09	20.5	1.0	56	9.5		
30-d	2/27/94	14:36	20.6	1.0	50	10.0		
30-d	2/28/94	11:56	20.8	0.6	37	11.0		
30-d	3/1/94	1:12	20.5	0.8	46	10.0		
31-s	2/25/94	9:09	20.8	0.7	60	8.0		7.
31-s	2/26/94	14:04	20.8	0.7	40	8.0		
31-s	2/27/94	14:30	21.0	0.5	23	8.0		
31-s	2/28/94	12:00	21.0	0.3	26	11.0	j	2
31-s	3/1/94	8:00	20.3	0.5	22	8.5		
31-m	2/25/94	9:09	20.7	0.7	50	9.0	3.1	
31-m	2/26/94	14:04	20.7	0.7	44	16.0	3.7	low flow
31-m	2/27/94	14:30	20.8	0.4	27	16.0	4.0	low flow
31-m	2/28/94	12:00	21.0	0.4	25	16.0	3.8	
31-m	3/1/94	8:00	20.6	0.5	22	16.0	3.7	
31-d	2/25/94	9:09	20.7	0.9	70.0	10.0		
31-d	2/26/94	14:04	20.5	0.8	60.0	11.0	İ	
31-d	2/27/94	14:30	20.8	0.7	37	11.0		
31-d	2/28/94	12:00	21.0	0.5	35	11.0	-	
31-d	3/1/94	8:00	20.7	0.6	30	11.5	-	}

Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
32-s	2/25/94	9:02	-	-	-	19.0	-	no flow
32-s	2/26/94	9:24	-	-	-	19.0	-	no flow
32-s	2/26/94	14:00	-	-	-	19.0	-	no flow
32-s	2/27/94	9:20	-	_	-	19.0	-	no flow
32-s	2/27/94	14:25	-	-	-	19.0	-	no flow
32-s	2/28/94	14:25	-	-	-	19.0	-	no flow
32-s	3/1/94	7:56						no flow
32-m	2/25/94	9:02	5.0	7.0	160	17.0	4.5	used 1:1 dilutor
32-m	2/25/94	15:04	7.0	8.5	150	16.0	6.5	used 1:1 dilutor
32-m	2/25/94	16:21	6.4	9.0	150	16.0		used 1:1 dilutor
32-m	2/25/94	16:42	6.4	9.0	155			used 1:1 dilutor
32-m	2/26/94	9:24	6.7	9.5	160	16.0	4.4	used 1:1 dilutor
32-m	2/26/94	14:00	6.6	9.5	130	16.5	4.5	used 1:1 dilutor
32-m	2/27/94	9:20	8.2	8.9	105	16.5	5.4	used 1:1 dilutor
32-m	2/27/94	14:25	8.0	9.3	110	16.0	5.6	used 1:1 dilutor
32-m	2/28/94	14:25	7.0	9.0	140	17.0	4.9	used 1:1 dilutor
32-m	3/1/94	7:56	<i>7</i> .8	9.0	120	17.0	5.1	
32-d	2/25/94	9:02	0.0	12.0	1,000	11.0		HC odor
32-d	2/26/94	9:24	0.0	12.0	1,800	10.0		HC odor
32-d	2/28/94	14:25	0.0	12.5	1,200	9.5		
32-d	3/1/94	12:15	0.0	12.5	1,200	9.5		
33-s	2/25/94	8:55	18.3	2.8	125	9.0		
33-s	2/25/94	15:06	18.5	2.5	130	6.0	i	
33-s	2/26/94	9:19	16.6	3.0	120	8.0	-	
33-s	2/26/94	13:56	16.5	3.0	110	8.0	Ì	
33-s	2/27/94	9:25	16.1	3.1	105	8.5		
33-s	2/27/94	14:22	16.0	3.1	85	9.0		
33-s	2/28/94	12:10	16.2	2.7	100	8.0		
33-s	3/1/94	7:53	15.0	3.6	94	9.0		
33-m	2/25/94	8:55	-	-	-	19.0	5.8	no flow
33-m	2/26/94	9:19	14.5	4.4	130	11.0	5.7	
33-m	2/26/94	13:56	14.3	4.3	120	11.0	5.8	
33-m	2/27/94	9:25	14.4	4.4	120	9.0	6.5	
33-m	2/27/94	14:22	14.0	4.6	94	11.0	6.2	
33-m	2/28/94	12:10	14.5	3.7	120	11.0	6.1	
33-m	3/1/94	7::53	13.7	4.8	100	11.0	6.1	
33-d	2/25/94	8:55	0.0	13.0	800	11.5		HC odor
33-d	2/26/94	9:19	0.0	12.5	800			
33-d	2/28/94	12:10	0.0	13.0	600	11.0		
33-d	2/28/94					Ì		
33-d	3/1/94	<i>7</i> :53	0.0	12.5	600	11.5		

Sampling					TPH	Pump Press		
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
34-s	2/25/94	8:50	-	-	-	19.5		no flow
34-s	2/25/94	15:09	-	-	-	19.0		no flow
34-s	2/26/94	9:15	-	-	-	19.0		no flow
34-s	2/26/94	13:51	19.3	1.1	60.0	9.0		
34-s	2/27/94	9:30	19.0	1.0	63	9.0		
34-s	2/27/94	14:17	18.7	1.1	55		ĺ	
34-s	2/28/94	12:06	18.0	1.0	70	9.0		
34-s	3/1/94	7:48	15.5	2.0	76	9.5	7.2	
34-m	2/25/94	8:50	20.3	1.0	<i>7</i> 0	10.0	7.2	
34-m	2/25/94	15:09	20.3	1.0	80	6.0	7.6	
34-m	2/25/94		20.2	1.0	<i>7</i> 2	9.5		
34-m	2/26/94	9:15	19.1	1.3	71	9.0	6.3	
34-m	2/26/94	13:51	18.8	1.3	72	9.5	6.9	
34-m	2/27/94	9:30	18,2	1,3	·· 73	9.5	7.2	
34-m	2/27/94	14:17	18.0	1.4	62	11.0	7.3	
34-m	2/28/94	12:06	17.3	1.3	80	9.5	7.1	
34-m	3/1/94	<i>7</i> :48	16.5	1.5	55	9.0		
34-d	2/25/94	8:50	20.0	1.0	80	10.0		
34-d	2/25/94	15:09	19.0	1.0	80	6.0		н
34-d	2/26/94	9:15	18. <i>7</i>	1.3	74	9.0		
34-d	2/26/94	13:51	18.0	1.5	<i>7</i> 5	9.5		
34-d	2/27/94	9:30	1 <i>7</i> .5	1.4	<i>7</i> 2	9.0		
34-d	2/27/94	14:17	16.8	1.7	65	11.0		
34-d	2/28/94	12:06	15.5	1.9	87	9.0		
34-d	3/1/94	7:48	13.5	2.5	84	9.5		

In situ Respiration Data - Parteren F (7-94)Sampling Temp Pump Press TPH O2 (%) (C) Comments Point Date Time CO2 (%) (in Hg) (ppm) 23.8 1-5 7/7/94 17:20 13.5 7.0 190 9.0 13:23 13.8 1-5 7/8/94 6.5 7/9/94 13.8 6.5 1-s 16:41 12:36 2.2 18.5 1-s 7/10/94 23.4 7/12/94 10:55 16.5 4.8 1-5 13.0 170 9.0 19.1 17:20 6.5 1-m 7/7/94 1-m 7/8/94 13:24 7.0 11.8 1-m 7/9/94 16:42 7.2 11.5 1-m 7/10/94 12:37 15.2 4.8 11.0 1-m 7/12/94 10:56 9.3 19.0 14.0 180 10.0 13.2 7/7/94 4.5 1-d 17:20 7/8/94 13:25 5.0 12.5 1-d 7/9/94 5.8 11.9 16:40 1-d 12:38 12.2 1-d 7/10/94 6.1 9.0 11.8 13.1 1-d 7/12/94 10:59 17:25 3.8 7.5 23.4 2-s 7/7/94 17.8 160 2-5 7/8/94 13:18 18.2 3.0 2-s 7/9/94 18.3 2.9 16:45 12:32 15.9 2-5 7/10/94 4.9 18.2 2.5 2-5 7/11/94 10:21 23.0 2.8 7.0 2-5 7/12/94 10:47 18 9.0 2-m 7/7/94 17:25 16.2 4.8 160 No t/c head 13:19 16.1 4.5 2-m 7/8/94 7/9/94 16:45 16.8 4.1 2-m 7/10/94 12:32 9.8 10.5 2-m 2-m 7/11/94 10:22 15.1 4.8 7/12/94 10:48 14.1 5.0 6.5 2-m 2-d 17:25 15.0 5.8 160 9.0 14.0 7/7/94 15.0 5.0 2-d 7/8/94 13:20 2-d 7/9/94 16:46 14.9 4.9 2-d 7/10/94 12:33 7.1 12.0 10:22 12.9 5.5 2-d 7/11/94 7.0 14.3 2-d 7/12/94 10:49 12.3 5.8 3-s 7/7/94 17:30 18.0 3.0 120 7.0 25.0 17.1 3-s 7/8/94 13:12 2.2 3.5 3-s 7/8/94 16:54 16.8 7/9/94 16:02 15 3-5 3.8 24.7 7.0 3-s 7/12/94 10:42 11 5.0 3-m 7/7/94 13:13 17.5 3.5 110 6.0 18.3 16:55 3-m 7/8/94 16.9 3.3 3-m 7/9/94 16:03 14.9 3.8 18.3 7/12/94 5.0 6.0 3-m 10:43 11.0 7/7/94 17:30 17.2 3.5 130 6.5 3-d 3-d 17.0 3.0 7/8/94 13:15 3-d 7/8/94 16:56 17.0 3.1 3-d 7/9/94 16:05 15.8 3.1

6.5

4.1

3-d

7/12/94

10:43

12.8

In situ Respiration Data - FE Warren (7-94)

	1			TPH	Pump Press	Temp	
	Time	02 (%)	CO2 (%)	ł		-	Comments
	i	1	1 1	130	0.5	25.0	
ł .	1		1 1				
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1		l .					
				!	6.0	23.5	
					I I		
				150			
		1	1 1				İ
					.		
					7.5	15.4	
	1					16.2	
				110			
		l i	i 1				
					7.0	19.7	
					6.0	20.5	
.,,							
7/7/94	17:50	20.0	1.8	105	6.0	24.6	
,	17:06	19.5	1.5				
1	15:53	20.0	0.8				1
	20:09	20.0	0.8				
	12:26	19.9	0.8				
7/12/94	11:06	20.0	0.8		2.0		
7/13/94	8:05	20.5	0.8		2.0		
7/7/94	17:50	8.2	10.5	170	10.0	22.2	
7/8/94	17:07	8.1	9.3				
7/9/94	15:54	7.0	9.5				
7/9/94	7/3/09	7.1	10.0				
7/10/94	12:27	<i>7.</i> 5	9.8				
7/12/94	11:07	8.0					
7/13/94	8:06		11.1				
1							
					6.0	22.3	
						22.5	
				140		24.0	
	1						
							1
9					6.0	24.0	
7/13/94	8:12	16.0	3.7	ľ	5.0	23.8	
	7/13/94 7/7/94 7/8/94 7/9/94 7/9/94 7/10/94 7/13/94 7/7/94 7/9/94 7/10/94 7/12/94 7/13/94 7/7/94 7/8/94 7/8/94 7/8/94 7/8/94 7/8/94 7/9/94 7/9/94	7/7/94 17:40 7/8/94 13:07 7/8/94 16:59 7/9/94 8:56 7/10/94 16:07 7/11/94 10:25 7/12/94 10:38 7/13/94 7:55 7/7/94 17:40 7/8/94 13:09 7/8/94 16:60 7/9/94 8:57 7/10/94 16:08 7/11/94 10:26 7/12/94 10:39 7/13/94 7:56 7/7/94 17:40 7/8/94 17:01 7/8/94 17:01 7/8/94 17:01 7/9/94 16:09 7/11/94 10:26 7/12/94 10:35 7/13/94 17:50 7/8/94 17:06 7/8/94 17:06 7/13/94 15:53 7/9/94 17:50 7/8/94 17:07 7/9/94 17:50 7/8/94 17:07	7/7/94 17:40 17.0 7/8/94 13:07 16 7/8/94 16:59 16.1 7/9/94 8:56 14.6 7/10/94 16:07 13.6 7/11/94 10:25 10.1 7/12/94 10:38 7.5 7/13/94 7:55 6.5 7/7/94 17:40 17.0 7/8/94 13:09 17.0 7/8/94 13:09 17.0 7/8/94 16:60 16.5 7/9/94 8:57 14.8 7/10/94 16:08 13.3 7/11/94 10:26 8.1 7/12/94 10:39 5.5 7/13/94 7:56 4.5 7/7/94 17:40 18.8 7/8/94 17:01 17.1 7/9/94 17:40 18.8 7/11/94 10:26 6.5 7/12/94 10:35 4.0 7/11/94 10:26 6.5 7/	7/7/94 17:40 17.0 4.0 7/8/94 13:07 16 4.0 7/8/94 16:59 16.1 4.0 7/9/94 8:56 14.6 4.8 7/10/94 16:07 13.6 4.8 7/11/94 10:25 10.1 6.1 7/11/94 10:25 10.1 6.1 7/12/94 10:38 7.5 7.0 7/13/94 7:55 6.5 7.9 7/7/94 17:40 17.0 3.8 7/8/94 13:09 17.0 3.6 7/8/94 16:60 16.5 3.6 7/9/94 8:57 14.8 4.0 7/10/94 16:08 13.3 3.9 7/11/94 10:26 8.1 5.8 7/12/94 10:39 5.5 6.8 7/13/94 7:56 4.5 7.5 7/7/94 17:40 18.8 2.2 7/8/94 17:01 17.1	7/7/94 17:40 17.0 4.0 150 7/8/94 13:07 16 4.0 178/94 16:59 16:1 4.0 178/94 16:59 16:1 4.0 179/94 16:59 16:1 4.0 179/94 16:59 16:1 4.0 179/94 16:59 16:1 4.0 179/94 16:57 13:6 4.8 7/10/94 16:07 13:6 4.8 7/11/94 10:25 10:1 6:1 7/11/94 10:38 7.5 7.0 7/13/94 7:55 6.5 7.9 7/7/94 17:40 17.0 3.6 7/8/94 13:09 17.0 3.6 7/8/94 13:09 17.0 3.6 7/8/94 13:09 17.0 3.6 7/9/94 18:8 4.0 6.5 3.6 7/9/94 18:0 18:3 3.9 7/11/94 10:26 8.1 5.8 7/11/94 10:26 8.1 5.8 7/11/94 10:39 5.5 6.8 7/55 7/57 7/7/94 17:40 <td>Date Time O2 (%) CO2 (%) (ppm) (in Hg) 7/7/94 17:40 17.0 4.0 150 6.5 7/8/94 16:57 16.1 4.0 150 6.5 7/8/94 16:59 16.1 4.0 4.8 4.8 4.8 7/10/94 16:07 13.6 4.8 4.8 4.8 4.1 7/11/94 10:25 10.1 6.1 5.7 6.0 6.0 7/13/94 7:55 6.5 7.9 6.0 6.0 6.0 7/13/94 17:40 17.0 3.6 7.8 12.0 7.8/94 13:09 17.0 3.6 7.6 4.0 7.7/19/94 15:00 16.5 3.6 7.7 7.7 4.0 18.8 4.0 7.5 6.0 7.5 7.5 6.0 7.5 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5</td> <td> Date</td>	Date Time O2 (%) CO2 (%) (ppm) (in Hg) 7/7/94 17:40 17.0 4.0 150 6.5 7/8/94 16:57 16.1 4.0 150 6.5 7/8/94 16:59 16.1 4.0 4.8 4.8 4.8 7/10/94 16:07 13.6 4.8 4.8 4.8 4.1 7/11/94 10:25 10.1 6.1 5.7 6.0 6.0 7/13/94 7:55 6.5 7.9 6.0 6.0 6.0 7/13/94 17:40 17.0 3.6 7.8 12.0 7.8/94 13:09 17.0 3.6 7.6 4.0 7.7/19/94 15:00 16.5 3.6 7.7 7.7 4.0 18.8 4.0 7.5 6.0 7.5 7.5 6.0 7.5 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5	Date

In situ Respiration	n Data - I	FE Warren	A '7-94)
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Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
6-m	7/7/94	18:00	18.5	2.8	140	11.0	15.4	
6-m	7/8/94	17:11	17.1	1.9				1
6-m	7/9/94	15:51	17.8	2.2				
6-m	7/12/94	11:15	12.2	4.8		4.0	15.9	
6-m	7/13/94	8:14	11.2	5.8		5.0	15.3	
6-d	7/7/94	18:00	18.0	2.9	140	9.0	21.1	
6-d	7/8/94	17:12	17.0	2.9				
6-d	7/9/94	15:50	14.8	3.5				
6-d	7/12/94	11:16	11.0	4.8		6.0	21.3	
6-d	7/13/94	8:16	10.0	6.0		2.0	21.2	
7-s	7/7/94	18:04	19.5	2.6	130	17.0		
7-s	7/8/94	17:14	18.8	2.1				
7-5	7/9/94	15:39	17.9	2.5				
7-s	7/12/94	13:01	17.9	2.8		10.0		
7-m	7/7/94	18:04	20.0	1.2	100	6.5	18.5	
7-m	7/8/94	17:16	19.1	1.8	1.0]		
7-m	7/9/94	15:411	18.1	1.8				
7-m	7/12/94	13:02	17.0	2.9		5.0	17.5	
7-d	7/7/94	18:04	205	0.9	70	10.0		
7-d	7/8/94	17:17	19.5	1.1				
7-d	7/9/94	15:42	18.5	1.3				
7-d	7/12/94	13:03	17.5	1.8		5.0		(Ee.)
8-s	7/7/94	18:10	15.0	7.2	180	9.0		
8-s	7/8/94	17:18	15	6.8				
8-s	7/9/94	15:36	15.5	6.2		1		
8-s	7/12/94	12:57	16.1	5.2		5.0		
8-m	7/7/94	18:10	15.2	6.0	165	6.5	19.7	
8-m	7/8/94	17:19	13.9	6.9		1		
8-m	7/9/94	15:37	15.3	6.3		i		
8-m	7/12/94	12:58	14.0	7.0		6.0	19.5	
8-d	7/7/94	18:10	14.5	6.9	170	10.0		
8-d	7/8/94	17:20	14.2	6.2				
8-d	7/9/94	15:37	13.9	6.5				
8-d	7/12/94	12:59	14.0	6.8	}	3.0		
9-s	7/7/94	18:20	19.0	2.8	130	9.0		
9-s	7/8/94	17:20	18.5	1.8	İ	ļ		
9-s	7/9/94	9:02	18.5	2.5				
9-s	7/12/94	12:52	17.9	2.8	ļ	6.0		
9-m	7/7/94	18:20	19.1	1.5	94	10.0	16.3	
1 1		17:21	18.9	2.0				
9-m	7/8/94	1				[
9-m	7/9/94	9:03	18.5	1.9		1	1153	
9-m	7/12/94	15:53	17.5	2.8			115.3	
9-d	7/7/94	18:20	20.0	1.5	82	10.0		
9-d	7/8/94	17:22	19.1	1.8				
9-d	7/9/94	9:04	19.0	1.5		j		
9-d	7/12/94	12:54	17.5	2.0		3.0		
- 7 4	//14/74	12.72	17.2			5.5		

	-	2	n situ Resp	mation Da			(7-94) 	
Sampling	E .				TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
		45.00	150	1 '	400			
10-s	7/7/94	17:10	15.0	6.5	180	9.0		
10-s	7/8/94	12:50	15.2	5.0				
10-s	7/8/94	16:12	15.8	5.5				
10-s	7/9/94	16:44	15.7	5.5				
10-s	7/10/94	12:22	15.8	4.8		5.0		
10-s	7/12/94	13:06	15.5	5.1	160		17.1	
10-m	7/7/94	17:10	15.2	5.8	160	10.0	17.1	
10-m	7/8/94	12:52	15.2	4.8				
10-m	7/8/94	16:13	15.8	5.0				
10-m	7/9/94	16:46	14.5	5.1 5.5				
10-m	7/10/94	12:23	14.1			3.0	16.6	
10-m	7/12/94	13:06	13.5	6.5	160	10.0	10.0	(q
10-d	7/7/94	17:10	15.5	4.8	190	10.0		
10-d	7/8/94	12:52	15.8	4.0				
10-d	7/8/94	16:14	15.8	4.1 6.5	25			
10-d 10-d	7/9/94 7/10/94	16:47 12:24	11.3 13.5	5.0				
10-d		13:06	12.9	5.9		2.0		
10-0	7/12/94	12:00	14.7	3.9				<u></u>
11-s	7/7/94	16:57	13.0	6.8	160	8.0		
11-s	7/8/94	12:55	11.0	7.5	100			
11-s	7/8/94	16:18	15.2	4.5				
11-s	7/9/94	16:28	16.5	3.8				
11-s	7/9/94	20:14	16.8	3.8				
11-s	7/10/94	12:18	16.8	3.5				
11-s	7/12/94	10:34	16.0	3.8		7.0		
11-m	7/7/94	16:57	12.0	7.8	160	9.0	19.9	
11-m	7/8/94	12:56	12.0	6.5				
11-m	7/8/94	16:17	12.1	6.8				
11-m	7/9/94	16:29	10.3	7.1				
11-m	7/9/94	20:15	10.2	7.8				
11-m	7/10/94	12:19	9.8	7.5				
11-m	7/12/94	10:34	8.0	9.0		6.5	20.1	
11-d	7/7/94	16:57	11.5	5.8	150	9.0		
11-d	7/8/94	12:57	11.0	5.0				
11-d	7/8/94	16:18	9.9	6.0				[
11-d	7/9/94	16:30	3.0	7.8				
11-d	7/9/94	20:16	2.8	8.8				8
11-d	7/10/94	12:20	1.0	8.8				
12-s	7/7/94	16:58	19.2	2.0	130	9.0		
12-s	7/8/94	12:59	19.8	0.8				
12-s	7/8/94	16:20	19.2	1.8		Į.		
12-s	7/9/94	16:34	20.5	0.9		50		
12-s	7/12/94	10:29	19.8	1.5	140	5.0 10.0	20.8	
12-m 12-m	7/7/94	16:58 13:00	17.5 17.5	2.5 3.0	140	10.0	20.0	
12-m 12-m	7/8/94 7/8/94	16:21	17.5	3.0				
12-m	7/9/94	16:35	16.5	3.2				}
12-m	7/12/94	10:29	14.9	3.8		7.0	21.0	
***	1 1-1 /3	~~.~/						1

In situ Respiration Data - FE Warren (7-94)

Sampling		7	ii situ nesi		TPH	\	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	Pump Press (in Hg)	(C)	Comments
12-d	7/7/94	16:58	18.2	2.8	115	10.0	(0)	Conditions
12-d	7/8/94	13:02	18.3	2.5	113	10.0		
12-d	7/8/94	16:22	17.9	2.8				
12-d	7/9/94	16:37	16.5	2.8				
12-d	7/12/94	10:29	14.0	3.8		7.0		
12-4	7/12/72	10.25	11.0	0.0		7.0		
13-s	7/7/94	16:53	12.5	8.9	180	7.0		
13-s	7/8/94	16:24	12.1	8.8				
13-s	7/10/94	12:13	8.1	9.8				
13-s	7/11/94	10:16	7.0	10.8				
13-s	7/12/94	10:19	6.0	10.0		5.0		
13-s	7/13/94	8:31	6.0	11.9		5.0		
13-m	7/7/94	16:53	14.0	7.0	170	9.0	20.1	
13-m	7/8/94	16:24	14.0	6.3				
13-m	7/10/94	12:14	8.2	7.9				
13-m	7/11/94	10:17	6.8	8.9				
13-m	7/12/94	10:20	5.0	9.8	:8:		21.3	
13-m	7/13/94	8:33	4.3	11.0		4.0	21.6	
13-d	7/7/94	16:53	19.2	1.9	105	10.0		
13-d	7/8/94	16:25	18.8	1.9		ļ		
13-d	7/10/94	12:15	13.5	1.8	ı	l		
13-d	7/11/94	10:18	11.1	2.8				
13-d	7/12/94	10:21	8.5	2.9				ł i
13-d	7/13/94	8:35	<i>7</i> .0	3.8		5.0		
14-s	7/7/94	18:15	17.5	4.5	165	10.0		
14-s	7/8/94	16:28	17.2	3.8	Ì			į į
14-s	7/9/94	17:13	17.0	3.8	ł	- 1		
14-s	7/12/94	10:15	16.2	3.9		7.0		
14-m	7/7/94	18:15	18.2	3.8	140	10.0	16.0	
14-m	7/8/94	16:29	17.0	3.8		İ		
14-m	7/9/94	17:14	16.2	3.8	1			
14-m	7/12/94	10:16	15.0	4.5		7.0	16.6	
14-d	7/7/94	18:15	19.0	2.5	115	9.0		
14-d	7/8/94	16:30	18.2	2.5		Į.		
14-d	7/9/94	17:15	16.5	2.8		7.0		
14-d	7/12/94	10:17	14.9	3.8		7.0		<u> </u>
16 I	7/7/04	15.40	10.2	10 1	150	10.0		r
15-s	7/7/94	15:10	19.2	1.8	150	10.0		
15-s	7/8/94	16:09	19	2.0		İ		
15-s	7/9/94	16:53	19.2	1.5		_		
15-s	7/12/94	13:12	19.0	1.8	150	5.0	17.0	
15-m	7/7/94	15:10	19.0	2.2	170	10.0	17.6	
15-m	7/8/94	16:10	18.5	2.8				
15-m	7/9/94	16:54	18.0	2.8		_	17.4	
15-m	7/12/94	13:13	17.8	2.9	140	5.0	17.4	
15-d	7/7/94	15:10	19.8	1.0	140	10.0		
15-d	7/8/94	16:11	19.0	1.8				
15-d	7/9/94	16:55	18.5	1.9		20		
15-d	7/12/94	13:13	17.9	2.3		3.0		

In situ Respiration Data - FE Warren (7-94)

Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
Block							(S.E.)	
16-s	7/7/94	15:20	19.0	1.9	160	11.0		·
16-s	7/8/94	16:06	18.5	2.5				
16-s	7/9/94	16:57	18.1	2.5				
16-s	7/12/94	13:16	17.8	2.8		6.5		
16-m	7/7/94	15:20	20.0	1.2	130	10.0	15.7	
16-m	7/8/94	16:07	19.0	1.4				
16-m	7/9/94	16:58	18.1	1.8				
16-m	7/12/94	13:12	16.8	2.8		6.0	15.7	
16-d	7/7/94	15:20	21.0	0.5	74	10.0		
16-d	7/8/94	16:08	19.9	0.9				
16-d	7/9/94	16:59	18.8	0.9	ł	,		
16-d	7/12/94	13:18	17.0	1.8		9.0		
<u> </u>			<u> </u>	<u> </u>				
17-s	7/7/94	15:30	17.2	4.2	195	8.0		Water in well
17-s	7/8/94	16:03	16	4.8				
17-s	7/9/94	17:01	15.1	4.9				
17-s	7/12/94	10:08	13.0	6.0		6.0		
17-m	7/7/94	15:30	18.8	2.5	170	9.0	78.8	
17-m	7/8/94	16:04	17.0	3.5				
17-m	7/9/94	17:02	15.5	3.8	_ ^	İ		
17-m	7/12/94	10:09	13.3	5.2		7.0	19.4	
17-d	7/7/94	15:30	19.5	1.2	130	9.0		
17-d	7/8/94	16:05	18.5	1.8				
17-d	7/9/94	17:03	16.9	2.3				
17-d	7/12/94	10:10	14.0	3.8		7.0		
								,
18-s	7/7/94	15:35	13.0	7.0	220	10.0		
18-s	7/8/94	16:01	12.8	6.8	ļ			
18-s	7/9/94	17:05	10.5	8.2	- 1	İ		
18-s	7/10/94	12:08	9.2	8.8				
18-s	7/12/94	10:04	7.5	10.0	İ	7.0		
18-s	7/13/94	7:21	8.0	9.8		7.0		
18-m	7/7/94	15:35	16.0	5.0	200	9.0	21.6	
18-m	7/8/94	16:02	13.8	5.9				
18-m	7/9/94	17:06	10.2	6.8		ł		
18-m	7/10/94	12:09	15.9	8.8			:	
18-m	7/12/94	10:05	5.5	10.3		8.0	22.1	
18-m	7/13/94	7:22	6.8	11.1		5.0	23.0	
18-d	7/7/94	15:35	19.0	1.9	150	9.0		
18-d	7/8/94	16:03	17.3	2.7				
18-d	7/9/94	17:07	12.8	3.8				
18-d	7/10/94	12:09	10.5	4.5		j	ļ	
18-d	7/12/94	10:06	6.5	7.3		<i>7</i> .0		
18-d	7/13/94	7:23	7.0	7.5		4.0		
10 -	7/7/04	16.00	10.5	25	150	7.0		
19-s	7/7/94	16:30	17.5	3.5	150	7.0		
19-s	7/8/94	15:55	17.2	3.5			İ	
19-s	7/9/94	17:11	14.9	3.8				
	7/10/94	11:57	14.2	4.1				
19-s	7/12/94	10:00	11.3	5.2		3.0		

			In situ Res	oiration Da	ata - FE	Warren .	(7-94)	
Sampling	7	1		T	TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
19-m	7/7/94	16:30	18.0	1.8	130	11.0	17.9	Conunerts
19-m	7/8/94	15:56	18.3	2.0	100	11.0	17.9	
19-m	7/9/94	17:10	15.3	2.9				İ
19-m	7/10/94	11:57	14.2	3.6				
19-m	7/12/94	10:01	11.0	4.8		6.0	18.5	ļ
19-d	7/7/94	16:30	20.0	0.8	68	7.0	10.5	
19-d	7/8/94	15:56	19.3	0.9	00	7.0]
19-d	7/9/94	17:11	16.8	1.3		į		
19-d	7/10/94	11:58	15.8	1.9				
19-d	7/12/94	10:02	12.1	3.2		<i>7</i> .0		
- 17 u	1/14/74	10.02	14-1	3.2		7.0		
20-s	7/7/94	14:55	20.0	1.3	140	8.0		
20-s	7/8/94	15:37	19.9	1.5	110	0.0		
20-s	7/9/94	17:19	19.8	0.9		504		[
20-s	7/12/94	13:21	18.9	1.3	- 1	5.5		
20-m	7/7/94	14:55	18.5	2.5	170	10.0	14.6	
20-m	7/8/94	15:37	17.8	2.3	1/0	10.0	14.0	
20-m	7/9/94	17:19	18.0	2.8	i	i		
20-m	7/12/94	13:21	18.0	2.9		7.5	14.9	
20-d	7/7/94	14:55	18.5	2.3	170	7.0	14.7	
20-d	7/8/94	15:37	18.0	2.9	170	7.0		
20-d	7/9/94	17:19	17.8	2.8				
20-d	7/12/94	13:21	17.8	3.0		6.0		
20 0	1112171	10.21	17.0	3.0		0.0		
21-s	7/7/94	14:48	19.5	1.3	150	10.0		Water in top of well
21-s	7/8/94	15:40	19.2	1.8		10.0		water in top of wen
21-s	7/9/94	8:50	19.8	1.8		İ		
21-s	7/12/94	13:24	18.8	1.8	-	3.0		
21-s	7/13/94	7:41	18.9	2.0		6.0		
21-m	7/7/94	14:48	20.0	1.0	110	13.0	17.0	
21-m	7/8/94	15:40	19.2	1.8	110	15.0	17.0	
21-m	7/9/94	8:50	19.2	1.5]	1		
21-m	7/12/94	13:24	16.8	1.9		6.0	16.8	
21-m	7/13/94	7:41	17.1	2.5	1	8.0	17.4	
21-d	7/7/94	14:48	21.0	0.1	53	10.0	17.1	
21-d	7/8/94	15:40	20.1	0.0	33	10.0	-	
21-d	7/9/94	8:50	20.2	0.2	- [1
21-d	7/12/94	13:24	14.5	1.9	1	3.0	i	1
21-d	7/13/94	7:41	15.5	2.4		5.0		
	7720771	7.22	1020	41		5.0		
22-s	7/7/94	14:40	19.0	4.8	170	5.0	T	
22-s	7/8/94	15:44	19.5	4.5	170	5.0		
22-s	7/10/94	11:45	17.3	4.8		i		
22-s	7/12/94	9:22	16.0	5.8		2.0		
22-s	7/13/94	7:34	20.3	2.5		5.0		
22-m	7/7/94	14:40	20.0	0.8	100	10.0	+	
22-m	7/8/94	15:44	19.5	0.8	100	10.0		
22-m	7/10/94	11:45	19.5	1.1	1		ŀ	
22-m	7/12/94	9:22	13.0	1.8		2.0		
22-m	7/13/94	7:34	13.5	2.0	1	4.0		
	. / 20/ /=	7.57	10.0	4.0		7.0		

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л	. /	•	y	4	,

Sampling Point Date Time O2 (%) CO2 (%) TPH (ppm) Pump Press (in Hg) Temp (C) Comments 22-d 7/7/94 14:40 21.0 0.0 54 11.0	
22-d 7/7/94 14:40 21.0 0.0 54 11.0 22-d 7/8/94 15:44 20.1 0.2 22-d 7/10/94 11:45 20.2 0.2 22-d 7/12/94 9:22 12.0 0.8 3.0	
22-d 7/8/94 15:44 20.1 0.2 22-d 7/10/94 11:45 20.2 0.2 22-d 7/12/94 9:22 12.0 0.8 3.0	
22-d 7/10/94 11:45 20.2 0.2	
22-d 7/12/94 9:22 12.0 0.8 3.0	
22-d 7/13/94 7:34 12.5 1.0 3.0	
23-s 7/7/94 14:30 No flow	
23-s 7/8/94 15:47 19.5 1.5	
23-s 7/10/94 11:49 17.8 2.6	
23-s 7/12/94 9:30 18.5 1.7 6.0	
23-s 7/13/94 7:26 18.9 1.8 2.0	
23-m 7/7/94 14:30 20.5 0.8 110 15.0 19.2	
23-m 7/8/94 15:47 20.0 0.9	
23-m 7/10/94 11:49 17.9 0.9	
23-m 7/12/94 9:30 12.0 1.5 10.0 18.6	
23-m 7/13/94 7:26 12.9 1.8 5.0 19.5	
23-d 7/7/94 14:30 21.0 0.1 54 11.0	
23-d 7/8/94 15:47 20.1 0.1	
23-d 7/10/94 11:49 18.2 0.2	
23-d 7/12/94 9:30 11.0 1.1 7.0	
23-d 7/13/94 7:26 11.5 2.8 3.0	
24-s 7/7/94 16:45 16.0 4.8 180 10.0	
24-s 7/8/94 15:52 16.5 4.5	
24-s 7/10/94 11:52 14.1 4.8	
24-s 7/11/94 10:12 12.0 5.8	
24-s 7/12/94 9:53 11.9 5.8 6.0	
24-m 7/7/94 16:45 18.5 2.8 140 9.0 17.7	-
24-m 7/8/94 15:52 18.3 2.5	
24-m 7/10/94 11:52 13.9 3.8	
24-m 7/11/94 10:12 10.9 4.8	
24-m 7/12/94 9:53 11.5 4.8 6.5 18.6	
24-d 7/7/94 16:45 20.0 0.8 67 7.0	
24-d 7/8/94 15:52 19.5 0.9	
24-d 7/10/94 11:52 14.9 2.5	
24-d 7/11/94 10:12 11.5 3.8	
24-d 7/12/94 9:53 10.9 3.8 3.0	
25-s 7/6/94 15:35 18.0 2.2 295 8.0 Water in top of w	ell
25-s 7/8/94 14:57 18.9 2.5	
25-s 7/9/94 17:23 19.8 1.5	
25-s 7/12/94 13:35 18.9 2.5 3.0	
25-m 7/6/94 15:35 17.8 1.4 270 18.0 12.9	
25-m 7/8/94 14:57 19.0 1.8	
25-m 7/9/94 17:23 19.8 1.8	
25-m 7/12/94 13:35 19.0 1.8 16.0 12.4	
25-d 7/6/94 15:35 18.5 1.2 240 10.0	
25-d 7/8/94 14:57 19.3 1.2	
25-d 7/9/94 17:23 19.0 1.0	
25-d 7/12/94 13:35 19.1 1.5 7.0	

In situ Respiration Data - FE Warren 7-94)

	-	1	n situ Hesi				7-94)	
Sampling	1				TPH	Pump Press	-	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
				T				
26-s	7/6/94	15:25	19.0	1.4	220	7.0		
26-s	7/8/94	12:33	20.0	0.9				
26-s	7/8/94	15:00	19.8	1.8				
26-s	7/9/94	8:38	19.8	1.8				Used for N2 injection stud
26-m	7/6/94	15:25	20.0	0.1	97	20.0	13.6	
26-m	7/8/94	12:33	20.2	0.1				
26-m	7/8/94	15:00	20.2	0.6				
26-m	7/9/94	8:38	20.0	0.8				
26-d	7/6/94	15:25	19.5	0.2	120	10.0		
26-d	7/8/94	12:33	20.9	0.0				
26-d	7/8/94	15:00	20.6	0.5				
26-d	7/9/94	8:38	20.4	0.2				
27-5	7/7/94	13:58	10.0	9.5	160	10.0		
27-s	7/8/94	11:40	10.0	9.3	100	10.0		
27-s	7/8/94	12:29	10.0	9.0	(6)			
27-s	7/8/94	15:09	10.2	8.9				
27-s	7/9/94	8:34	13.8	8.1				
27-s	7/9/94	20:20	11.0	8.8		i		1
27-s	7/10/94	11:35	13.2	8.0				
27-s	7/12/94	13:30	15.3	6.2		3.0		
27-m	7/7/94	13:58	9.0	8.5	140	7.0	18.5	
27-m	7/8/94	11:40	8.5	9.8	140	7.0	20.0	1
27-m	7/8/94	12:29	8.9	9.3		1		1
27-m	7/8/94	15:09	9.0	9.9				
27-m	7/9/94	8:34	9.5	10.1		ļ		1
27-m	7/9/94	20:20	8.0	10.8	1	ĺ		
27-m	7/10/94	11:35	14.2	7.9				
27-m	7/12/94	13:30	14.0	6.5		6.0	17.5	
27-d	7/7/94	13:58	16.5	3.2	110	7.0		
27-d	7/8/94	11:40	12.8	6.0				
27-d	7/8/94	12:29	12.8	5.8				×
27-d	7/8/94	15:09	12.5	6.2	1			
27-d	7/9/94	8:34	11.8	7.5				
27-d	7/9/94	20:20	9.0	9.0				
27-d	7/10/94	11:35	14.8	7.8				
27-d	7/12/94	13:30	16.2	4.5		2.0		
28-s	7/7/94	14:10	9.5	9.5	210	12.0		
28-s	1	- 1	- 1		210	10		
	7/8/94	11:37	4.8	12.0				
28-s	7/8/94	11:55	5	12.2		1		
28-s	7/8/94	12:20	4.8	11.9				
28-s	7/8/94	15:12	5.3	12.5				
28-s	7/8/94	17:33	8.0	12.3				
28-s	7/8/94	21:02	10.1	12.0		(8)		
28-s	7/9/94	8:26	10.5	10.9				
28-s	7/9/94	15:03	10.3	10.0		1		
28-s	7/9/94	20:25	9.9	12.0	l	1		Injection well on at 15:10
28-s	7/10/94	11:38	16.8	6.8	Ì			@ 32 ACFM
28-s	7/11/94	9:54	19.0	3.6				@ 50 ACFM

(7	-94)

			ii situ nest	JII AUDIT D		Wallell		
Sampling	1				TPH	Pump Press		
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
28-s	7/12/94	8:03	15.1	5.8		2.0		
28-s	7/12/94	14:07	16.0	5		3.0		Zero flow at 11:08
28-5	7/13/94	8:50	12.1	7.0		2.0		
28-m	7/7/94	14:10	9.0	9.5	210	11.0	16.4	
28-m	7/8/94	11:37	7.0	11.2				
28-m	7/8/94	11:55	7.0	11.1				
28-m	7/8/94	12:20	7.1	10.5	8			
28-m	7/8/94	15:12	7.0	11.5		1		
28-m	7/8/94	17:33	6.9	11.9		ļ		
28-m	7/8/94	21:02	7.0	13.0				i
28-m	7/9/94	8:26	6.8	12.9				ļ
28-m	7/9/94	15:03	6.2	12.5				ia.
28-m	7/9/94	20:25	12.8	10.9				-
28-m	7/10/94	11:38	18.2	5.1		9.23		
28-m	7/11/94	9:54	19.8	2.7				
28-m	7/12/94	8:03	17.2	3.8	8	2.0	20.0	
28-m	7/12/94	14:07	16.5	3.8		3.0	19.9	
28-m	7/13/94	8:50	12.5	5.0		2.0	19.3	
28-d	7/7/94	14:10	15.0	5.0	230	10.0		
28-d	7/8/94	11:37	13.0	5.9	200	11.0		
28-d	7/8/94	· 11:55	14.2	5.0	i			
28-d	7/8/94	12:20	14.5	4.5		Ī		
28-d	7/8/94	15:12	14.3	5.0				
28-d	7/8/94	17:33	13.8	5.8	}]		
28-d	7/8/94	21:02	13.1	6.8	i	ŀ		
28-d	7/9/94	8:26	11.0	7.1	-			i
28-d	7/9/94	15:03	9.5	7.5	İ			
28-d	7/9/94	20:25	18.9	2.8				x
28-d	7/10/94	11:38	19.9	1.4		Ì		
28-d	7/11/94	9:54	20.8	0.5	ļ			1
28-d	7/12/94	8:03	20.1	0.8	- 1	2.5		
28-d	7/12/94	14:07	19.3	1.8		2.0		
28-d	7/13/94	8:50	17.2	2.4		3.0		
29-s	7/6/94	12:28	18.0	4.2	130	10.0		
29-s	7/6/94	14:37	15.0	5.0	240			
29-s	7/8/94	11:34	14.1	5.7				
29-s	7/8/94	12:25	14.0	5.8				
29-s	7/8/94	15:15	14.0	6.1	i	1		
29-s	7/8/94	17:28	13.8	6.3				
29-s	7/8/94	21:04	13.3	7.1		}		
29-s	7/9/94	8:22	13.6	6.5		ŀ		
29-s	7/9/94	14:57	12.5	6.5				Injection well on at 15:10
29-s	7/9/94	20:29	9.5	7.8				
29-s	7/10/94	11:40	9.2	8.5	- 1	1		@ 32 ACFM
29-s	7/11/94	10:00	11.7	9.5		1		@ 50 ACFM
29-s	7/12/94	8:10	12	8.8		6.0		20 - 2
29-5	7/12/94	14:10	13.9	7.1		2.0		Zero flow at 11:08
29-s	7/12/94	8:55	12.0	7.1]	2.0		
47*5	//13/74	ו ככבה	14.0	1.7		U [ı İ

Sampling	3				TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
29-m	7/6/94	12:28	18.5	3.8	130	11.0	19.3	
29-m	7/6/94	14:37	15.0	5.0	240	9.0		}
29-m	7/8/94	11:34	14.5	5.0				
29-m	7/8/94	12:25	14.2	4.8				,
29-m	7/8/94	15:15	13.8	5.2				1
29-m	7/8/94	17:28	13.2	5.5				
29-m	7/8/94	21:04	12.6	6.3				!
29-m	7/9/94	8:22	10.9	6.3				
29-m	7/9/94	14:57	9.2	6.8				ŀ
29-m	7/9/94	20:29	8.1	7.8				
29-m	7/10/94	11:40	14.0	6.5				
29-m	7/11/94	10:00	17.2	4.5				
29-m	7/12/94	8:10	13.5	5.2		2.0	20.3	¥(
29-m	7/12/94	14:10	12.8	5		2.0	20.3	
29-m	7/13/94	8:55	9.5	7.0		2.0	20.5	
29-d	7/6/94	12:28	21.0	0.8	65	11.0		
29-d	7/6/94	14:37	18.0	1.2	120			
29-d	7/8/94	11:34	19.0	1.2				
29-d	7/8/94	12:25	18.5	1.2		,		
29-d	7/8/94	15:15	17.2	2.0				
29-d	7/8/94	17:28	16.2	2.8				
29-d	7/8/94	21:04	15.0	3.8				
29-d	7/9/94	8:22	12.0	4.8		}		
29-d	7/9/94	14:57	10.0	4.9		İ		
29-d	7/9/94	20:29	10.1	6.9	i			
29-d	7/10/94	11:40	18.1	2.8				
29-d	7/11/94	10:00	19.9	1.1		İ		İ
29-d	7/12/94	8:10	15.9	3.5		2.0		10
29-d	7/12/94	14:10	14.1	3.8	1	6.0		
29-d	7/13/94	8:55	10.1	5.9		2.0		
	.1							
30-s	7/6/94	15:45	19.0	0.4	190	8.0		
30-s	7/8/94	14:53	20.9	0.2		į		
30-s	7/10/94	11:31	20.7	0.1		ĺ		
30-s	7/12/94	13:41	20.8	0.2		3.0		
30-m	7/6/94	15:45	19.0	0.9	220	16.0	14.3	
30-m	7/8/94	14:53	20.0	0.9	- 1			
30-m	7/10/94	11:31	20.3	0.7				
30-m	7/12/94	13:41	20.2	0.8		5.0	13.7	
30-d	7/6/94	15:45	19.0	1.4	260	12.0		
30-d	7/8/94	14:53	20.2	1.2				
30-d	7/10/94	11:31	20.2	0.9				
30-d	7/12/94	13:41	20.2	1.1		3.0		
31-s	7/7/94	15:50	19.3	0.7	30			
31-5	7/7/94 7/8/94		20.5	0.7	88	11.0		
31-5	L L	11:29		0.1	00	11.0		
1 1	7/8/94	12:01	20.5				-	į
31-5	7/8/94	14:48	20.5	0.1	İ	-	ļ	
31-s 31-s	7/8/94	20:42	20.5	0.2	ł			
	7/10/94	11:26	20.8	0.1		40		
31-5	7/12/94	13:45	20.8	0.15		4.0		

Samplin	ng			T	TPH	Pump Press	Temp	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
31-m	7/7/94	15:50	19.5	0.5	96	17.0	14.0	
31-m	7/8/94	11:29	20.5	0.1				
31-m	7/8/94	12:01	20.5	0.0				
31-m	7/8/94	14:48	19.5	0.2	1	1	1	
31-m	7/8/94	20:42	20.8	0.2	i	İ		
31-m	7/10/94	11:26	20.1	0.6		ĺ		
31-m	7/12/94	13:45	20.5	0.2		7.0	13.4	
31-d	7/7/94	15:50	19.1	0.8	110	10.0		
31-d	7/8/94	11:29	20.0	0.2		ŀ	!	
31-d	7/8/94	12:01	20.3	0.2		1		
31-d	7/8/94	14:48	20.5	0.2				
31-d	7/8/94	20:42	20.3	0.9				
31-d	7/10/94	11:26	20.3	0.6		* 0.5		
31-d	7/12/94	13:45	20.3	0.8	00	3.5	266	
32-m	7/8/94	9:01	3.8	16.5	92	15.0	16.6	
32-m	7/8/94	11:15	4.5	14.5				
32-m 32-m	7/8/94	11:27	4.2 3.9	14.0				
32-m	7/8/94	11:44 11:58	3.8	14.3 14.1				
32-m	7/8/94	12:17	3.9	13.8				
32-m	7/8/94	13:31	3.9	15.0				
32-m	7/8/94	14:44	4.2	14.2				
32-m	7/8/94	15:28	4.2	14.9		ĺ		
32-m	7/9/94	8:41	5.8	14.2	i			
32-m	7/9/94	20:48	5.2	15.1	ľ			
32-m	7/10/94	11:23	5.8	13				
32-m	7/12/94	7:58	7	13.1		10.0	17.4	
32-d	7/8/94	9:01	0.0	21.0	2900	6.0		
32-d	7/8/94	11:16	0.0	19.0	- 1			*:
32-d	7/9/94	20:49	0.0	19.0	[1		
32-d	7/10/94	11:23	0.0	16.9	İ			
33-s	7/8/94	8:50	18.0	4.2	90	4.0		
33-s	7/8/94	11:18	17.5	4.0	}			
33-s	1		1	J	i	İ		
	7/8/94	11:46	18.1	2.3				
33-s	7/8/94	12:12	18.2	2.0	İ	í		
33-s	7/8/94	15:25	16.5	4.8				
33-s	7/8/94	1 <i>7</i> :36	16.0	5.8		1		
33-s	7/8/94	21:00	16.1	6.0			İ	
	1		1					* * * * * * * * * * * * * * * * * * *
33-s	7/9/94	8:43	17.1	4.8				Injection well on at 15:10
33-s	7/9/94	20:33	16.8	4.8				
33-s	7/10/94	11:14	16.9	4.9				@ 32 ACFM
33-s	7/11/94	9:48	16.0	5.0				@ 50 ACFM
33-s	7/12/94	7:54	16.0	4.8		2.0		
33-s	7/12/94	14:00	15.8	4.8		6.0		Zero flow at 11:08
33-s	7/13/94	9:13	18.0	3.8		22.0		

Sampling	_			COC (71)	TPH	Pump Press	Temp	Comments
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
33-m	7/8/94	8:50	10.0	10.5	110	8.0	15.4	
33-m	7/8/94	11:18	6.8	12.5				8
33-m	7/8/94	11:46	6.8	12.2				
33-m	7/8/94	12:12	6.8	12.0				
33-m	7/8/94	15:25	7.1	12.9				
33-m	7/8/94	17:36	7.2	13.1				
33-m	7/8/94	21:00	7.5	14.0				
33-m	7/9/94	8:43	8.8	12.9				
33-m	7/9/94	20:33	8.3	12				
33-m	7/10/94	11:14	11	9.3		120		
33-m	7/11/94	9:48	10.7	8.5				
33-m	7/12/94	7:54	9.3	8.9		3.5	16.2	1
33-m	7/12/94	14:00	9	8.5		4.0	15.6	
33-m	7/13/94	9:13	9.0	10.5		≈ 3.0	15.5	
33-d	7/8/94	8:50	5.0	15.0	840	10.0		Strong HC smeil
33-d	7/8/94	11:20	0.0	16.0				
33-d	7/8/94	11:48	0.0	16.0				
33-d	7/9/94	20:35	0.0	17.5				
33-d	7/10/94	11:17	0.0	15.8				
		9:51	0.0	15.5				
33-d	7/11/94	7:55	0.0	15.8		4.0		
33-d	7/12/94	7:55	0.0	13.0				
34-s	7/6/94	10:50	17.0	3.1	190	10.0		
34-s	7/6/94	16:08	16.5	4.0				
34-s	7/8/94	11:23	17.5	3.8				
34-s	7/8/94	11:50	17.0	3.8				
34-5	7/8/94	12:05	17.0	3.5				
34-s	7/8/94	15:22	16.8	4.0				
34-s	7/8/94	17:38	16.5	4.3		[1
34-s	7/8/94	20:59	16.5	4.5				1
34-s	7/9/94	8:46	15.5	4.8		}		
3 4-s	7/9/94	15:06	14.9	4.8]		Injection well on at 15:10
34-s	7/9/94	20:38	17.9	4.3				0.22 4 6774
34-s	7/10/94	11:18	19.3	1.9				@ 32 ACFM
34-s	7/11/94	9:40	20	1.5				@ 50 ACFM
34-s	7/12/94	7:45	18.2	2.8		1.0		Zero flow at 11:08
34-s	7/12/94	14:04	17.1	3		3.0		Zeto 1104 at 11.00
34-s	7/13/94	9:20	16.0	4.0	100	5.0	18.0	
34-m	7/6/94	16:08	17.0	2.9	180	11.0	10.0	
34-m	7/8/94	11:23	18.0	2.2				
34-m	7/8/94	11:50	17.5	3.1	'			
34-m	7/8/94	12:05	17.8	3.0				
34-m	7/8/94	15:22	17.0 16.5	3.8 3.9				
34-m	7/8/94	17:38 20:59						
				1 1				
1 1						}		
				!				
34-m	7/12/94	7:45	18.5	2.4		3.0	20.3	
34-m	7/12/94	14:04	17.6	2.5		3.0	19.3	
34-m	7/13/94	9:20	15.5	3.9		2.0	20.0	
34-m 34-m 34-m 34-m 34-m	7/8/94 7/9/94 7/9/94 7/9/94 7/10/94 7/11/94	20:59 8:46 15:06 20:38 11:18 9:40	16.3 14.7 13.8 18.2 19.6 20	4 4.5 4.5 3.8 1.8 1.2		3.0	20 3	

In situ Respiration Data - FE Warren A .7-

Sampling					TPH	Pump Press		
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
34-d	7/6/94	16:08	18.0	1.8	180	10.0		
34-d	7/8/94	11:23	19.2	1.3				
34-d	7/8/94	11:50	18.9	1.5				
34-d	7/8/94	12:05	18.5	1.5				1
34-d	7/8/94	15:22	18.0	2.0				
34-d	7/8/94	17:38	17.5	2.3				
34-d	7/8/94	20:59	17.1	2.5				
34-d	7/9/94	8:46	15	2				
34-d	7/9/94	15:06	14.1	3.1				
34-d	7/9/94	20:38	19.7	1.8				
34-d	7/10/94	11:18	20.5	0.1				
34-d	7/11/94	9:40	20.9	0.1				l .
34-d	7/12/94	7:45	20	0.8		2.0	•	
34-d	7/12/94	14:04	18.6	0.9		3.0		
34-d	7/13/94	9:20	15.8	1.1		2.0		

(1	0-	9	4)	
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		1	·- · · · · · · · · · · · · · · · · · ·	tion lest D			(10-9	·
Sampling	1				TPH	Pump Press		
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
1-s	10/13/94	10:00	17.5	3.8	180	5.0	15.2	Ambient Temp 8.3 C
1-3	10/13/94		18.8	2.8				
1-s	10/14/94	10:20	18.5	3.0	220	5.0	14.4	
1-5	10/15/94	11:57	17.9	3.3	170	1.0	14.7	
1-s	10/16/94	12:45	17	3.0	130	1.5	13.9	
1-s	10/17/94	10:27	15	3.3	140	6.0	12.8	
1-m	10/13/94	10:00	17.0	4.2	180	2.0	17.4	
1-m	10/13/94		17.5	2.5				
1-m	10/14/94	10:20	17.2	3.5	220			
1-m	10/15/94	11:57	16.5	3.8	180	1.0	16.2	
1-m	10/16/94	12:45	14.8	4.3	150	1.0	15.9	
1-m	10/17/94	10:27	14.0	4.5	140	2.5	16.0	
1-d	10/13/94	10:00	17.0	4.2	180	5.0	11.1	
1-d	10/13/94		18.5	3.0				
1-d	10/14/94	10:20	16.5	3.7	230	5.0	15.7	
1-d	10/15/94	11:57	15.3	4.3	180	1.5	15.8	
1-d	10/16/94	12:45	13.5	4.8	150	1.0	16.0	
1-d	10/17/94	10:27	12.2	5.3	130	1.0	15.5	Cal Check
2-5	10/13/94		19.5	2.0	120	1.0	8.5	
2-s	10/13/94		20.0	1.5				
2-s	10/14/94	10:21	20.0	1.2	140	5.0	19.5	
2-s	10/15/94	12:30	18.8	1.4	100	6.0	14.1	
2-s	10/16/94	12:36	18.5	1.3	100	5.0	14.2	
2-s	10/17/94	10:36	17.6	1.3	<i>7</i> 0		13.8	
2-m	10/13/94		19.5	2.0	120	2.0		
2-m	10/13/94		20.0	1.5				
2-m	10/14/94	10:21	19.5	1.5	140	5.0		
2-m	10/15/94	12:30	17.8	2.0	120	6.0		
2-m	10/16/94	12:36	17.2	2.2	110	5.0		
2-m	10/17/94	10:36	16.2	2.5	100	1.0		
2-d	10/13/94		19.0	2.5	140	5.0	16.0	
2-d	10/13/94		19.5	1.5	1	1		
2-d	10/14/94	10:21	19.0	1.9	180	5.0	15.6	
2-d	10/15/94	12:30	17.5	2.3	120	1.0	1.5	
2-d	10/16/94	12:36	16.1	2.6	120	2.0	15.9	
2-d	10/17/94	10:36	15.3	2.5	100	3.0	15.9	
•								
3-s	10/13/94		18.4	3.2	150	4.0	15.8	
3-s	10/13/94		19.5	2.5				
3-s	10/14/94	10:30	18.5	2.7	190	4.0	15.2	
3-s	10/15/94	12:38	17.0	3.1	130	5.0	15.1	
3-s	10/16/94	12:30	15.5	3.3	130	5.0	14.7	
3-s	10/17/94	10:45	14.2	3.3	140	2.0	14.2	
3-m	10/13/94		17.8	3.7	180	3.0	17.8	
3-m	10/13/94	İ	19.0	3.0			_	
3-m	10/14/94	10:30	17.7	3.2	190	2.0	17.2	
3-m	10/15/94	12:38	16.0	3.7	150	1.0	17.4	
3-m	10/16/94	12:30	14.6	4.7	140	6.0	17.2	
3-m	10/17/94	10:45	13.0	3.8	140	4.0	17.1	

(1	0-94)
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	/	2	· · · · ·			Waller		
Sampling	_	İ		600 (0)	TPH	Pump Press		
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
3-d	10/13/94		17.1	4.3	200	5.0		
3-d	10/13/94		18.5	3.5				
3-d	10/14/94	10:30	17.6	3.5	200	2.0		1
3-d	10/15/94	12:38	16.3	3.7	150	5.0		
3-d	10/16/94	12:30	15.2	4.0	140	5.0		
3-d	10/17/94	10:45	13.7	4.0	130	5.0		
4-5	10/13/94		10.5	9.8	230	5.0	15.9	1/2" Water in Vault
4-s	10/13/94		12.0	7.5				no air injection
4-s	10/14/94	10:35	12.2	8.0	220	2.0	23.0	before shutdown
4-s	10/15/94	12:48	11.0	8.3	170	5.0	1.2	
4-s	10/16/94	12:25	10.0	8.6	160	3.0	14.7	1
4-5	10/17/94	10:53	9.5	8.5	160	3.0	14.5	
4-m	10/13/94		8.0	12.0	240	6.0	17.2	
4-m	10/13/94		11.0	9.0				no air injection
4-m	10/14/94	10:35	9.0	10.2	230	2.0	16.5	before shutdown
4-m	10/15/94	12:48	9.6	9.2	170	1.0	-0.5	
4-m	10/16/94	12:25	6.8	11.8	160	6.0	16.4	
4-m	10/17/94	10:53	6.0	12.0	170	6.0	16.6	
4-d	10/13/94		6.0	13.5	240	6.0	2.1	
4-d	10/13/94		9.5	10.0				no air injection
4-d	10/14/94	10:35	7.0	11.5	220	2.0	16.4	before shutdown
4-d	10/15/94	12:48	8.3	10.0	170	1.0	-0.4	
4-d	10/16/94	12:25	4.6	13.2	160	4.0	16.9	[
4-d	10/17/94	10:53	6.5	10.5	180	6.0	17.0	
	207 2.77 2							<u></u>
5-s	10/13/94		14.3	6.1	210	6	3.7	1/2" Water in Vault
5-s	10/13/94		19.4	2.0				pulsing test well
5-5	10/14/94	10:40	18.5	4.5	180	2.0	14.7	
5-s	10/15/94	12:54	19.3	1.8	100	1.0	15.0	
5-s	10/16/94	12:11	17.8	3.0	130	6.0	14.4	
5-s	10/17/94	11:01	17.0	3.5	160	1.5	12.9	
5-m	10/13/94	11.01	6.3	12.3	220	6	2.7	
5-m	10/13/94		9.0	9.5				pulsing test well
5-m	10/13/94	10:40	17.2	4.8	220	2.0	23.0	7
5-m	10/14/94	12:54	10.5	10.0	170	2.0	-1.0	
		12:11	8.0	12.0	160	6.0	16.8	
5-m	10/16/94		8.7	10.8	190	1.5	3.4	
5-m 5-d	10/17/94	11:01	1.3	17.2	220	6	18.1	
	10/13/94		ı		220	١	10.1	pulsing test well
5-d	10/13/94	10.40	6.0	12.0	100	5.0	22.5	Langue con wen
5-d	10/14/94	10:40	16.5	5.5	180		7.9	
5-d	10/15/94	12:54	6.3	13.2	170	1.0		
5-d	10/16/94	12:11	3.0	16.5	160	6.0	17.6	
5-d	10/17/94	11:01	6.5	10.5	200	2.5	17.4	
					605		15.5	
6-s	10/13/94		17.5	5.6	200	5	15.5	mulaina hash sucil
6-s	10/13/94		20.5	5.0			444	pulsing test well
6-s	10/14/94	10:45	18.0	4.5	200	2.0	14.6	
6-s	10/16/94	12:52	15.5	4.8	150	5.0	13.6	
6-s	10/17/94	11:11	14.7	5.2	170	2.5	13.7	

In situ Respiration Test Data - FE Warre (10-94)

C1:1		5	1	lion rest b			(10-5	7
Sampling	D-1-	T	02 (9/)	CO2 (%)	TPH	Pump Press	_	Commission
Point 6-m	Date 10/13/94	Time	O2 (%)	5	(ppm) 210	(in Hg)	(C) 16.7	Comments
6-m			20.0	0.5	210	8	10.7	pulsing test well
1	10/13/94 10/14/94	10:45	17.2	4.8	200	2.0	- 15. <i>7</i>	harstrik test wett
6-m	10/14/94	12:52	14.0	6.0	150	6.0	16.0	
6-m		ì	13.5	6.4	180	2.5	16.2	
6-m	10/17/94	11:11	17.8	5.7	210	6	2.5	
6-d	10/13/94		18.0	0.5	210		سے	pulsing test well
6-d	10/13/94	10.45	16.5	5.5	200	2.0	17.3	harand test wen
6-d	10/14/94	10:45		6.8	150	5.0	16.6	
6-d	10/16/94	12:52	13.2 12.7	7.1	170	2.5	16.1	
6-d	10/17/94	11:11	12./	7.1	1/0	2.0	10.1	
7.	10/13/94	1	15.0	7.4	230	4.0		no air injection
7 - s	10/13/94	10:50	16.5	7.4 5.8	200	2.0		before shutdown
I	10/14/94	11:19	15.6	6.0	160	3.0		January II
7-s 7-m		11:17	13.6	8.5	230	5.0	16.8	no air injection
7-m 7-m	10/13/94 10/14/94	10:50	14.2	7.8	220	2.0	16.4	before shutdown
7-m 7-m	10/14/94	11:19	15.0	7.8 7.0	160	1.0	16.6	
7-m	10/17/94	11.17	12.5	10.0	210	1.0	10.0	no air injection
7-d 7-d	10/13/94	10:50	13.2	8.9	210	2.0		before shutdown
7-d 7-d	10/14/94	11:19	14.5	7.7	170	1.0		Joenste Stitute viti
/-u	10/1//94	11.17	14.5	7.7	170	1.0		l
8-s	10/13/94		14.0	8.0	220	2.0		no air injection
8-s	10/13/94	10:55	14.2	7.3	210	1.0		before shutdown
8-s	10/14/94	1:10	14	7.2	160	6.0		
8-m	10/13/94	1.10	12.0	10.0	220	3.0	18.7	no air injection
8-m	10/13/94	10:55	12.2	9.4	220	2.0	18.3	before shutdown
8-m	10/16/94	1:10	12.3	8.9	160	6.0	18.4	
8-d	10/13/94	1.10	10.6	11.0	220	2.0		no air injection
8-d	10/13/94	10:55	10.5	11.4	220	2.0		before shutdown
8-d	10/16/94	1:10	10.2	11.2	150	1.5		
0-u	10/10/94	1.10	10.2	11.4	150	1.0		
9-s	10/13/94		15.0	6.0	190	1.0		no air injection
9-s	10/13/94	11:03	15.2	6.3	220	2.0		before shutdown
9-s	10/15/94	2:15	17	4.6	170	1.0		1 2 - 4
9-s	10/16/94	1:17	15.2	5.7	150	1.0		
9-m	10/13/94	2.27	13.0	8.3	200	2.0	19.2	no air injection
9-m	10/13/94	11:03	13.5	8.0	230	2.0	19.0	before shutdown
9-m	10/15/94	2:15	14.5	6.8	180	1.0	19.3	
9-m	10/15/94	1:17	13.2	7.7	150	1.0	20.7	
9-d	10/13/94	4-1/	12.0	9.5	200	1.0		no air injection
9-d	10/14/94	11:03	11.5	9.7	220	1.0		before shutdown
9-d	10/15/94	2:15	13.5	7.6	200	0.5		
9-d	10/15/94	1:17	11.7	9.2	160	1.0		
, u	10/10/72	2.7	44./	7.4				1
10-s	10/13/94		14.5	7.5	200	2.0		
10-s	10/14/94	2:28	15.2	6.5	260	1.5		pulsing test well
10-s	10/15/94	11:14	16.5	6.5	200	3.0		
10-s	10/15/94	12:05	15.5	6.0	180	6.0		
	1	9:56		6.9	190	1.0		
10-s	10/17/94	7:30	14.3	0.7	130	1.0		<u> </u>

In situ Respiration Test Data - FE Warren ASS (10-94)

				140 10 100		vallen	_	
Sampling		I	00 (0)	CO2 (9/)	TPH	Pump F.	Temp	Comments
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
10-m	10/13/94		14.5	7.5	200	5.0	19.8	
10-m	10/14/94	2:28	14.0	7.2	260	1.0	19.4	pulsing test well
10-m	10/15/94	11:14	15.4	7.5	200	6.0	19.8	
10-m	10/16/94	12:05	13.5	8.0	160	6.0	19.6	
10-m	10/17/94	9:56	12.7	8.2	190	1.0	19.5	
10-d	10/13/94		16.0	5.3	190	5.0		
10-d	10/14/94	2:28	14.2	6.5	240	1.0		pulsing test well
10-d	10/15/94	11:14	15.0	7.2	220	6.0		
10-d	10/16/94	12:05	12.8	8.4	160	6.0		
10-d	10/17/94	9:56	12.4	9.0	200	1.0		
					212			
11-s	10/13/94		13.0	10.5	210	1.0	-	and the state of the
11-s	10/14/94	10:00	15.8	7.5	240			pulsing test well
11-s	10/15/94	11:04	16.0	7.0	190	. 1.5		
11-s	10/16/94	11:15	14	7.2	200	5.0	,	
11 - s	10/17/94	9:49	14.0	6.7	200	2.5	160	
11-m	10/13/94		11.4	11.5	200	2.0	16.9	
11-m	10/14/94	10:00	12.2	11.0	260	5.0	16.1	pulsing test well
11-m	10/15/94	11:04	11.0	11.5	190	6.0	17.2	
11-m	10/16/94	11:15	8.5	12.7	210	5.0	16.8	
11-m	10/17/94	9:49	7.5	12.3	200	6.0	16.7	
11-d	10/13/94		5.2	16.8	20	5.0		
11-d	10/14/94	10:00	4.2	17.2	250	6.0		pulsing test well
11-d	10/14/94	2:30	1.8	20.0	260	4.0		
11-d	10/15/94	11:04	2.3	19.5	210	1.0		
11-d	10/16/94	11:15	0.2	22.0	220	5.0		
11-d	10/17/94	9:49	0.2	22.0	190	6.0		Snowing
				10.0	100	20		
12-s	10/13/94		8.5	13.5	190	2.0		
12-s	10/14/94	2:20	9.5	12.8	260	5.0	,	no air injection
12-s	10/15/94	11:20	12.0	10.8	200	1.0	ì	before shutdown
12-s	10/16/94	11:10	10.7	12.0	200	1.0		
12-s	10/17/94	9:44	10.5	12.5	200	2.5	16.6	
12-m	10/13/94		<i>7</i> .0	15.0	180		16.6	
12-m	10/14/94	2:20	8.0	15.0	260	1.0	- 1	no air injection
12-m	10/15/94	11:20	9.4	14.5	190	1.0		before shutdown
12-m	10/16/94	11:10	8.6	14.6	210	2.0	16.9	
12-m	10/17/94	9:44	9.3	14.2	200	3.0	16.2	
12-d	10/13/94		6.0	16.0	180	2.0		
12-d	10/14/94	2:20	6.0	16.5	260	1.0		no air injection
12-d	10/15/94	11:20	8.1	15.5	190	1.0		before shutdown
12-d	10/16/94	11:10	7.0	17.0	220	2.5		
12-d	10/17/94	9:44	8.0	14.8	190	7.0	l	
				10.5	100	- 00		
13-s	10/13/94		6.2	19.0	190	2.0	i	muna CO back surall
13-s	10/14/94	11:17	6.5	19.0	200	2.0		pure O2 test well
13-s	10/15/94	11:36	9	16.0	190	6.0		
13-s	10/16/94	11:03	5.5	19.2	190	1.5		
13 - s	10/17/94	9:36	4.8	19.5	200_	5.0		

In situ Respiration Test Data - FE Warren (10-94) Sampling TPH Pump Press Temp Comments O2 (%) CO2 (%) (ppm) (in Hg) (C) Time Point Date 200 1.0 21.3 13-m 10/13/94 4.0 23.0 190 1.5 15.1 pure O2 test well 11:17 3.5 24.0 13-m 10/14/94 21.2 5.0 22.5 210 1.5 13-m 10/15/94 11:36 180 3.0 21.2 24.0 11:03 3.1 13-m 10/16/94 190 20.9 3.0 20.0 9:36 4.0 13-m 10/17/94 2.5 190 2.0 >25 13-d 10/13/94 pure O2 test well 180 1.5 10/14/94 11:17 1.8 >25 13-d 11:36 3.0 >25 200 1.5 13-d 10/15/94 1.5 >25 180 4.0 13-d 10/16/94 11:03 6.0 13-d 10/17/94 9:36 2.0 >25 180 7.8 1.0 14.5 200 10/13/94 14-5 pure O2 test well 7.5 220 2.0 14.3 11:11 14-5 10/14/94 205 6.0 14.4 7.8 11:33 14-s 10/15/94 1.0 10:57 14.0 8.3 200 14-5 10/16/94 6.0 14.0 8.2 200 9:20 14-s 10/17/94 20.0 1.0 Snowing 210 10/13/94 11.0 11.7 14-m 19.8 pure O2 test well 11:11 11.0 11.5 210 2.0 14-m 10/14/94 19.7 11:33 11.5 11.5 210 1.0 14-m 10/15/94 10:57 10.5 12.8 200 1.0 19.7 10/16/94 14-m 10.6 12.5 21 6.0 20.8 9:20 14-m 10/17/94 200 2.0 15.0 9.0 14-d 10/13/94 pure O2 test well 220 2.0 9.5 14.0 14-d 10/14/94 11:11 210 10.5 13.0 14-d 10/15/94 11:33 3.0 15.5 200 14-d 10/16/94 10:57 8.0 7.0 200 10/17/94 9:20 8.5 15.2 14-d 17.0 4.7 190 5.0 15-s 10/13/94 1.0 pulsing test well 2:36 17.7 4.0 240 15-s 10/14/94 0.5 2:38 18.5 3.5 150 15-s 10/15/94 6.0 140 12:00 18.0 3.4 15-s 10/16/94 1.5 17.5 3.8 160 15-s 10/17/94 10:02 15.0 6.0 4.7 190 15-m 10/13/94 16.5 26.4 pulsing test well 15-m 10/14/94 2:36 16.8 4.6 240 1.0 15.1 2:38 17.6 4.3 180 0.5 15-m 10/15/94 15.0 12:00 17.0 4.7 150 4.0 15-m 10/16/94 10:02 17.5 4.3 160 1.0 15.1 15-m 10/17/94 2.0 4.8 190 15-d 16.2 10/13/94 pulsing test well 3.0 2:36 16.5 4.6 240 15-d 10/14/94 0.5 170 17.3 15-d 10/15/94 2:38 4.4 6.0 4.9 160 15-d 10/16/94 12:00 17.0 4.7 170 2.0 15-d 10/17/94 10:02 17.0

16-s	10/13/94		18.0	3.7	160	2.0	
16-s	10/14/94	2:42	16.5	3.5	230	2.0	pulsing test well
16-s	10/15/94	2:31	18.3	3.4	150	1.0	
16-s	10/16/94	11:55	17.2	3.8	140	5.0	
16-s	10/17/94	10:07	17.5	3.7	150	1.5	

In situ Respiration Test Data - FE Warren (10-94)

	-	9				varren	7	
Sampling		_	00.00	CO2 (7/)	TPH	Pump Press	Temp	Comments
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Conunents
16-m	10/13/94		17.6	4.0	160	2.0	16.2 16.2	pulsing test well
16-m	10/14/94	2:42	16.2	3.8	240	2.0	10.2	puising test well
16-m	10/15/94	2:31	17.6	3.7	150	1.5		
16-m	10/16/94	11:55	16.5	4.5	160	1.5		- €/
16-m	10/17/94	10:07	17.1	4.1	160	1.0		
16-d	10/13/94		18.5	3.7	160	2.0		
16-d	10/14/94	2:42	16.2	3.8	210	4.0		pulsing test well
16-d	10/15/94	2:31	17.5	3.8	150	1.0		
16-d	10/16/94	11:55	16.5	4.4	150	6.0		
16-d	10/17/94	10:07	16.3	4.3	160	6.0		
				40	100	20		<u> </u>
17-s	10/13/94		14.0	6.8	190	2.0		no sir injection
17-s	10/14/94		14.4	6.3	400	,		no air injection before shutdown
17-s	10/15/94	2:25	15.2	6.3	180	6.0		before struttdown
17-s	10/16/94	11:48	13.0	7.5	150	1.0		
17-s	10/17/94	10:12	12.6	7.5	190	1.0	17.0	
17-m	10/13/94		14.0	7.0	190	3.0	17.8	
17-m	10/14/94	ľ	14.3	6.5				no air injection
17-m	10/15/94	2:25	14.3	6.9	190	6.0	17.6	before shutdown
17-m	10/16/94	11:48	12.0	8.5	150	5.0	17.8	
17-m	10/17/94	10:12	11.7	8.2	190	1.0	17.4	
17-d	10/13/94		14.5	6.1	180	3.0		
17-d	10/14/94		14.8	5.8				no air injection
17-d	10/15/94	2:25	13.7	7.1	190	4.0		before shutdown
17-d	10/16/94	11:48	11.5	9.3	150	3.0		
17-d	10/17/94	10:12	11.2	9.8	190	1.0		<u> </u>
18-5	10/13/94		8.3	15.0	200	3.0		
18 - s	10/14/94	11:22	7.6	16.2	200	2.0		pure O2 test well
18-s	10/15/94	11:48	9.0	14.8	210	2.0		
18-s	10/16/94	10:43	5.8	16.5	200	5.0		
18-s	10/17/94	9:08	5.0	17.0	220	7.0		
18-m	10/13/94		7.6	15.4	200	3.0	21.8	
18-m	10/14/94	11:22	6.2	17.5	200	5.0	21.5	pure O2 test well
18-m	10/15/94	11:48	7.0	16.5	210	2.0	21.8	
18-m	10/16/94	10:43	4.0	20.0	200	6.0	21.8	
18-m	10/17/94	9:08	3.5	20.0	200	7.0	22.4	
18-d	10/13/94		8.0	15.5	200	2.0		
18-d	10/14/94	11:22	4.5	19.0	200	1.5		pure O2 test well
18-d	10/15/94	11:48	5.5	18.0	220	3.0		
18-d	10/16/94	10:43	3.0	22.0	200	6.0		
18-d	10/17/94	9:08	4.3	19.0	180	6.0		
19-s	10/13/94		9.5	14.3	200	2.0		
19-s	10/14/94	11::27	7.2	17.0	210	2.0		pure O2 test well
19 - s	10/15/94	11:40	8.5	16.2	200	5.0		1
19-s	10/16/94	10:51	7.0	17.5	200	5.0		
19-s	10/17/94	9:13	8.3	16.5	180	7.0		

In situ Respiration Test Data - FE Warrer 3 (10-94)

		:/				- TVAITE!		T
Sampling	_		00	COC (41)	TPH	Pump Press	-	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
19-m	10/13/94		7.2	16.2	205	2.0		02 took!!
19-m	10/14/94	11::27	4.7	21.0	200	2.5		pure O2 test well
19-m	10/15/94	11:40	6.8	18.0	200	1.5		
19-m	10/16/94	10:51	3.8	22.5	190	4.0		
19-m	10/17/94	9:13	4.8	22.0	200	7.0		
19-d	10/13/94		8.3	14.5	200	2.0		
19-d	10/14/94	11::27	4.0	22.0	200	0.2		pure O2 test well
19-d	10/15/94	11:40	5.0	21.0	200	5.0		
19-d	10/16/94	10:51	2.8	24.0	180	4.0		
19-d	10/17/94	9:13	3.5	24.0	220	7.0		Snowing
					110	- 20		T
24-s	10/13/94		18.0	3.0	160	2.0		
24-s	10/14/94	2:50	18.0	2.5	220	3.0		
24-s	10/15/94	2:40	17	3.5	160			
24-s	10/16/94	1:23	15.8	3.4	140	3.0		
24-s	10/17/94	11:25	14.0	3.5	120		900	
					140	5.0	16.6	
24-m	10/14/94	2:50	18.0	2.5	190	3.0	16.0	
24-m	10/15/94	2:40	16.5	3.1	160		16.2	
24-m	10/16/94	1:23	15.3	3.5	130	6.0	17.2	
24-m	10/17/94	11:25	13.5	3.5	130		16.5	
24-d	10/13/94		19.0	1.6	100	3.0		
24-d	10/14/94	2:50	19.0	2.2	180	4.0		
24-d	10/15/94	2:40	17.0	2.5	150			ļ
24-d	10/16/94	1:23	15.6	2.8	130	2.0		
24-d	10/17/94	11:25	14.5	3.3	140			
								<u> </u>
27-s	10/13/94		14.5	4.5	170	2.0		
27-s	10/14/94	11:42	15.3	5.5	200	6.0		
27-s	10/15/94	10:00	14.0	4.5	210	4.0		
27-s	10/16/94	10:05	14.0	6.0	230	1.0		
27-s	10/17/94	8:28	13.5	5.8	200	1.5		
27-m	10/13/94		15.5	4.5	170	2.0	18.0	1
27-m	10/14/94	11:42	12.8	6.2	210	6.0	16.8	
27-m	10/15/94	10:00	13.2	6.3	230	4.0	18.8	
27-m	10/16/94	10:05	11.0	7.5	230	3.0	18.8	
27-m	10/17/94	8:28	9.6	8.0	210	1.5	19.1	<u> </u>
27-d	10/13/94		18.5	2.2	120	2.0		
27-d	10/14/94	11:42	15.0	3.8	200	6.0		
27-d	10/15/94	10:00	16.3	4.8	220	5.0		
27-d	10/16/94	10:05	11.7	6.5	220	5.0		
27-d	10/17/94	8:28	10.5	7.0	200	2.5		
28-s	10/13/94		13.0	6.5	170	3.0		
28-s	10/14/94	11:38	11.7	8.0	220	1.5		
28-s	10/15/94	10:10	12.3	7.4	230	3.0		
28-s	10/16/94	10:12	8.8	8.8	230	5.0		
28-s	10/17/94	8:30	6.2	9.4	230	1.5		<u> </u>

In situ Respiration	Test Data - FE	Warren 'FB	(10-94)
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(a				1		varren		
Sampling	1	777	02 (8)	COS /0/:	TPH	Pump !	Temp	Community
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
28-m	10/13/94	1	11.8	8.0	180	5.0	20.9	
28-m	10/14/94	11:38	8.5	10.0	220	1.0	20.6	
28-m	10/15/94	10:10	9.5	9.0	230	4.0	21.5	
28-m	10/16/94	10:12	4.9	12.5	230	2.0	21.5	
28-m	10/17/94	8:30	3.5	12.7	230	1.0	21.0	
28-d	10/13/94	44.00	16.0	3.4	170	5.0		
28-d	10/14/94	11:38	12.5	5.8	220	6.0		
28-d	10/15/94	10:10	11.3	6.3	220	3.0		
28-d	10/16/94	10:12	5.8	9.3	220	2.0	8	
28-d	10/17/94	8:30	4.0	10.5	230	1.0		
29-s	10/13/94		14.5	4.5	20	3.0		
29-5	10/14/94	11:32	14.2	5.7	210	6.0		9)
29-s	10/15/94	10:20	13.5	5.5	210	a 5		
29-s	10/16/94	10:16	11.0	7.0	230	4.0		
29-s	10/17/94	8:36	6.8	10.5	200	1.0	100	
29-m	10/13/94		14.0	4.5	200	2.0	18.8	
29-m	10/14/94	11:32	11.8	6.2	200	5.0	17.8	
29-m	10/15/94	10:20	11.5	6.3	220	5.0	18.5	
29-m	10/16/94	10:16	7.5	8.5	220	2.0	19.4	
29-m	10/17/94	8:36	6.0	9.3	210	1.5	18.9	
29-d	10/13/94		17.8	2.0	140	2.0		
29-d	10/14/94	11:32	12.4	4.7	200	6.0		
29-d	10/15/94	10:20	11.2	6.2	22	2.0	i	
29-d	10/16/94	10:16	6.5	8.8	240	6.0		
29-d	10/17/94	8:36	4.5	9.8	210	2.0		
32-s	10/13/94		11.8	7.5	170	17.0		
32-s	10/14/94	12:00	11.0	8.3	260	4.0		
32-s	10/15/94	10:49	13	7.5	230	11.0		
32-s	10/16/94	10:33	13.0	8.0	300	10.0		
32-s	10/17/94	8:58	12.5	8.7	230	15.0		<u></u>
32-m	10/13/94		9.5	10.5	200	5.0	16.7	
32-m	10/14/94	12:00	6.5	13.0	250	6.0	16.4	
32-m	10/15/94	10:49	8.3	12.3	230	11.0	17.1	
32-m	10/16/94	10:33	7.3	14.0	310	9.0	17.2	
32-m	10/17/94	8:58	8.1	13.0	240	7.0	16.7	Odor
32-d	10/13/94		3.8	15.4	1,000	5.0		
32-d	10/14/94	12:00	0.5	19.0	2,400	3.0	ļ	
32-d	10/15/94	10:49	2.8	17.5	3,400	5.0		
32-d	10/16/94	10:33	0	22	3,000	3		
32-d	10/17/94	8:58	0.0	22.0	3,000	1.5		
33-s	10/13/94		12.8	4.8	200	4.0		
33-s	10/14/94	11:53	14.0	6.2	220	6.0		
33-s	10/15/94	10:42	15.4	6.2	190	5.0		
33-s	10/16/94	10:28	14.4	7.3	230	1.5		
33-s	10/17/94	8:52	14.8	7.0	220	1.0		

In situ Respiration Test Data - FE Warrer 3

)	- Tiespire	mon rest b	ימום - רב	. warrer	, (10-3	7)
Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
33-m	10/13/94		13.0	7.8	240	3.0	17.3	
33-m	10/14/94	11:53	10.3	9.2	200	6.0	16.8	
33-m	10/15/94	10:42	11.2	9.0	210	6.0	17.7	
33-m	10/16/94	10:28	10.0	10.6	240	2.0	17.8	
33-m	10/17/94	8:52	10.6	10.3	220	4.0	17.9	
33-d	10/13/94		3.5	13.2	530	5.0		
33-d	10/14/94	11:53	1.0	15.5	1,000	7.0		
33-d	10/15/94	10:42	3.5	14.5	1,100	7.0		
33-d	10/16/94	10:28	0.0	18.0	1,200	4.0		
33-d	10/17/94	8:52	0.8	17.5	1,000	5.0		Odor
34-s	10/13/94		18.8	2.2	120	4.0		
34-s	10/14/94	11:49	16.3	3.3	190	6.0		704.7
34-s	10/15/94	10:35	16.2	3.8	210	. 5.0		37213
34-s	10/16/94	10:23	13.8	4.8	200	2.5		
34-s	10/17/94	8:42	12.5	5.6	180	1.5		
34-m	10/13/94		18.8	2.4	130	2.0	21.2	
34-m	10/14/94	11:49	15.3	3.7	200	1.0	21.5	
34-m	10/15/94	10:35	14.2	4.4	210	5.0	21.5	
34-m	10/16/94	10:23	11.7	6.2	220	2.5	21.9	
34-m	10/17/94	8:42	10.0	7.0	190	<i>7</i> .0	21.6	
34-d	10/13/94		19.5	1.7	90			
34-d	10/14/94	11:49	16.0	2.5	180	1.0		
34-d	10/15/94	10:35	14.0	4.0	200	3.0	j	
34-d	10/16/94	10:23	10.5	6.0	220	1.5	İ	
34-d	10/17/94	8:42	9.0	7.0	190	7.0	i	

In situ Respiration Data - FE Warren AF (12-94)

Sampling			ĺ		TPH	Pup Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(⊂)	Comments
13-s	12/3/94	15:55	21.8	10.5		3.0		
13-s	12/4/94	9:06	23.8	10.6	260			pure O2
13 - s	12/5/94	9:25	24.2	10.3				test well
13-s	12/6/94	10:44	24.5	9.8				ļ
13-s	12/7/94	11:40	24.0	10.5				
13-s	12/8/94	8:20	23.2	9.7				
13-m	12/3/94	15:55	24.2	12.8		3.0		
13-m	12/4/94	9:06	36.0	13.3	170		12.4	pure O2
13-m	12/5/94	9:25	29.0	12.4			12.0	test well
13-m	12/6/94	10:44	29.0	12.7				
13-m	12/7/94	11:40	24.8	12.8			11.6	
13-m	12/8/94	8:20	23.7	11.8			11.5	
13-d	12/3/94	15:55	44.5	14.5	1			
13-d	12/4/94	9:06	41.0	14.7	60			pure O2
13-d	12/5/94	9:25	37.0	14.3				test well
13-d	12/6/94	10:44	35.5	12.5				
13-d	12/7/94	11:40	33.0	14.5				
13-d	12/8/94	8:20	33.6	13.8				9
14-s	12/3/94	15:50	14.0	6.0				
14-s	12/4/94	9:38	20.0	6.0	50			pure O2
14-s	12/5/94	10:00	20.3	5.6				test well
14-s	12/6/94	10:25	20.5	5.8				
14-s	12/7/94	11:50	20.4	5.8				
14-s	12/8/94	7:54	20.3	5.7				Ambient Temp 8.6 C
14-m	12/3/94	15:50	18.4	8.3			14.0	
14-m	12/4/94	9:38	19.6	8.3	100		13.7	pure O2
14-m	12/5/94	10:00	20.3	8.0			13.5	test well
14-m	12/6/94	10:25	20.5	7.8	-		14.4	Ambient Temp 1 C
14-m	12/7/94	11:50	20.3	8.2	i	1	13.1	_
14-m	12/8/94	7:54	20.0	7.8		İ	13.9	
14-d	12/3/94	15:50	21.5	9.4		35.0		
14-d	12/4/94	9:38	22.0	10.0	100	1		pure O2
14-d	12/5/94	10:00	22.3	10.0				test well
14-d	12/6/94	10:25	22.3	9.2				
14-d	12/7/94	11:50	21.5	10.0	1	1		
14-d	12/8/94	7:54	20.9	9.8		- 1		
18-s	12/3/94	15:30	13.5	8.0	40	7.5		
18-s	12/4/94	9:55	14.0	8.2	120			pure O2
18-s	12/5/94	9:16	14.0	7.8				test well
18-s	12/6/94	10:35	14.5	7.8	1			
18-s	12/7/94	11:28	14.5	8.3				
18-s	12/8/94	8:12	14.8	7.7				
18-m	12/3/94	15:30	12.5	8.9		7.0		
18-m	12/4/94	9:55	13.0	8.8	120	-	13.7	pure O2
18-m	12/5/94	9:16	13.3	8.5			13.6	test well
18-m	12/6/94	10:35	13.5	8.5			14.2	
18-m	12/7/94	11:28	13.0	9.3		ļ	13.5	
18-m	12/8/94	8:12	13.8	8.4		1	14.4	
i to-m i								

Sampling			in situ	Hespiration	n Data - FE	warren	A (12-94)		
Point Date Time C2 (%) C92 (%) C92 (%) C92 (%) C92 (%) C92 (%) C92 (%) C92 (%) C92 (%) C92 (%) C93	Sampling					TPH	Pump Press	Temp	
18-d 12/4/94 9:55 12.2 9.8 Pure O2 test well	1	ı	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
12/5/94 9:16 12.7 9.0 12.7 9.0 18-d 12/6/94 10:35 12.7 9.4 18-d 12/6/94 10:35 12.7 9.4 18-d 12/8/94 8:12 13.0 9.6	18-d	12/3/94	15:30	11.5	9.8		7.0		
18-d 12/5/94 9:16 12.7 9.0 test well	18-d	12/4/94	9:55	12.2	9.8				pure O2
18-d 12/7/94 11:28 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.6 13.0 9.6 13.5 12/4/94 8:12 13.0 9.6 13.5 12/4/94 9:45 19.0 10.2 120 19-3 12/5/94 10:08 17.7 10.0 10.2 120 19-3 12/6/94 10:18 16.5 9.5 19-3 12/6/94 11:20 16.7 9.5 19-3 12/8/94 8:04 17.3 8.5 19-m 12/3/94 15:42 20.8 12.2 7.0 19-m 12/3/94 10:08 17.0 12.2 19-m 12/6/94 10:08 17.0 12.2 19-m 12/6/94 10:18 16.0 11.0 19-m 12/6/94 10:18 16.0 11.0 19-m 12/7/94 11:20 16.0 10.5 19-m 12/8/94 8:04 15.7 11.3 19-d 12/4/94 9:45 20.7 0.2 7.0 pure O2 19-d 12/4/94 9:45 20.7 0.2 7.0 pure O2 19-d 12/4/94 10:08 17.6 10.5 19-d 12/7/94 11:20 16.1 13.0 19-d 12/8/94 8:04 15.7 12.8 12.5	1	12/5/94	9:16	12.7	9.0		}		test well
19-s 12/3/94 15:42 19.3 9.5 12/3/94 19-s 12/4/94 9:45 19.0 10.2 120 120 19-s 12/6/94 10:18 16.5 9.5 19-s 12/7/94 11:20 16.7 9.5 19-s 12/8/94 8:04 17.3 8.5 19-m 12/4/94 9:45 19.4 12.0 110 110 110 19-m 12/4/94 10:18 16.0 11.0 19-m 12/4/94 10:18 16.0 11.0 19-m 12/4/94 10:18 16.0 11.0 19-m 12/4/94 10:18 16.0 11.0 19-m 12/4/94 15:42 22.5 12.5 19-d 12/3/94 15:42 22.5 12.5 19-d 12/3/94 15:42 22.5 12.5 19-d 12/3/94 15:42 22.5 12.5 19-d 12/4/94 9:45 20.7 0.2 7.0 pure O2 test well 19-m 12/4/94 9:45 20.7 0.2 7.0 pure O2 test well 19-d 12/4/94 8:04 15.7 11.3 19-d 12/4/94 10:18 16.5 11.0 19-d 12/4/94 8:04 15.7 12.8 19-d 12/4/94 8:04 15.7 12.8 19-d 12/4/94 8:04 15.7 12.8 19-d 12/4/94 8:04 15.7 12.8 19-d 12/4/94 8:04 15.7 12.8 19-d 12/4/94 8:04 15.7 12.8 19-d 12/4/94 8:04 15.7 12.8 19-d 12/8/94 8:03 15.0 5.2 28-s 12/4/94 8:43 13.5 6.5 13.2 28-d 12/8/94 8:43 13.5 6.5 13.2 28-d 12/8/94 8:43 13.5 6.5 13.2 29-s 10/13/94 14.5 4.5 29-s 10/13/94 14.5 4.5 29-s 10/13/94 14.0 4.5 29-s 10/14/94 11.8 6.2 29-s 10/14/94 11.8 6.2 29-m 10/14/94 11.8 6.2 29-m 10/14/94 11.8 6.2 29-m 10/14/94 11.8 6.2 29-m 10/14/94 11.8 6.2 29-m 10/14/94 11.8 6.2 29-m 10/14/94 11.8 6.2 29-m 10/14/94 11.8 6.2 29-m 10/14/94 11.2 6.2 29-d 10/14/94 12.4 4.7 29-d 10/15/94 11.2 6.2 29-d 10/15/94 11.2 6.2 29-d 10/15/94 11.2 6.2 29-d 10/15/94 11.2 6.2 29-d 10/15/94 11.2 6.2 29-d 10/15/94 11.2 6.2 29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8 10.5 20-d 20-d 10/16/94 6.5 8.8 20-d 20-d 10/16/94 6.5 8.8 20-d 20-d 10/16/94 6.5 8.8 20-d 20-d 20-d 20-	18-d	12/6/94	10:35	12.7	9.4				
18-d 12/8/94 8:12 13.0 9.6 19-s 12/3/94 15:42 19.3 9.5 19.9 10.2 120	18-d	12/7/94	11:28	12.5	12.5				
19-4 12/4/94 9:45 19:0 10:2 120 pure O2 test well 19-5 12/6/94 10:18 16:5 9:5 12/6/94 10:18 16:5 9:5 12/8/94 8:04 17:3 8:5 19-m 12/4/94 9:45 19:4 12:0 110 pure O2 19:m 12/4/94 9:45 19:4 12:0 110 pure O2 19:m 12/4/94 10:08 17:0 12:2 110 pure O2 19:m 12/4/94 10:08 17:0 12:2 110 pure O2 19:m 12/6/94 10:18 16:0 11:0 19:m 12/6/94 10:18 16:0 10:5 19:m 12/8/94 8:04 15:7 11:3 19:m 12/4/94 9:45 19:4 11:20 16:0 10:5 19:m 12/4/94 9:45 20:7 0:2 7:0 pure O2 19:m 12/8/94 8:04 15:7 11:3 19:d 12/4/94 9:45 20:7 0:2 7:0 pure O2 19:d 12/6/94 10:18 16:5 11:0 19:d 12/6/94 10:18 16:5 11:0 19:d 12/6/94 10:18 16:5 11:0 19:d 12/6/94 10:18 16:5 11:0 19:d 12/6/94 8:04 15:7 12:8 11:3 13:0 19:d 12/8/94 8:04 15:7 12:8 12:8 12/8/94 8:04 15:7 12:8 13:0 5:2 12:5 12:5 12:5 12:5 12:5 12:5 12:5	18-d	12/8/94	8:12	13.0	9.6		<u> </u>		
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19-3 12/5/94 10:08 17.7 10:0 test well 19-5 12/6/94 10:18 16.5 9.5 19-6 12/7/94 11:20 16.7 9.5 19-7 12/8/94 8:04 17.3 8.5 19-m 12/8/94 9:45 19.4 12:0 19-m 12/4/94 9:45 19.4 12:0 19-m 12/6/94 10:18 16.0 11:0 19-m 12/6/94 10:18 16.0 11:0 19-m 12/7/94 11:20 16:0 10:5 19-m 12/8/94 8:04 15.7 11:3 19-d 12/8/94 9:45 20.7 0.2 7.0 19-d 12/4/94 9:45 20.7 0.2 7.0 19-d 12/5/94 10:18 16.5 11:0 19-d 12/6/94 10:18 16.5 11:0 19-d 12/6/94 10:18 16.5 11:0 19-d 12/6/94 10:18 16.5 11:0 19-d 12/7/94 10:08 17.6 10:5 19-d 12/7/94 10:08 17.6 10:5 19-d 12/7/94 10:18 16.5 11:0 19-d 12/8/94 8:04 15.7 12.8 28-s 12/7/94 12:15 15:0 5.0 28-s 12/7/94 12:15 15:0 5.0 28-s 12/8/94 8:43 13:5 6.5 28-m 12/8/94 8:43 14:0 5.8 29-s 10/14/94 14:2 5.7 29-s 10/15/94 11:0 7.0 29-s 10/15/94 11:0 7.0 29-m 10/14/94 11:0 6.0 9.3 29-m 10/16/94 11:0 6.0 9.3 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-m 10/16/94 17.5 8.5 29-d 10/16/94 17.8 2.0	19-s	12/3/94	15:42	19.3			7.5		
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29-m 10/15/94 11.5 6.3 29-m 10/16/94 7.5 8.5 29-m 10/17/94 6.0 9.3 29-d 10/13/94 17.8 2.0 29-d 10/14/94 12.4 4.7 29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8	29-m	- 1		ĺ					
29-m 10/16/94 7.5 8.5 29-m 10/17/94 6.0 9.3 29-d 10/13/94 17.8 2.0 29-d 10/14/94 12.4 4.7 29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8	29-m	10/14/94		11.8	6.2				
29-m 10/16/94 7.5 8.5 29-m 10/17/94 6.0 9.3 29-d 10/13/94 17.8 2.0 29-d 10/14/94 12.4 4.7 29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8	29-m	10/15/94		11.5	6.3				
29-m 10/17/94 6.0 9.3 29-d 10/13/94 17.8 2.0 29-d 10/14/94 12.4 4.7 29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8		10/16/94		7.5	8.5		{		
29-d 10/13/94 17.8 2.0 29-d 10/14/94 12.4 4.7 29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8	1 1	- 1							
29-d 10/14/94 12.4 4.7 29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8									
29-d 10/15/94 11.2 6.2 29-d 10/16/94 6.5 8.8	1								
29-d 10/16/94 6.5 8.8	1 i			i					
	1 1								
29-d 10/17/94 4.5 9.8	29-d	10/16/94		6.5					-
	29-d	10/17/94		4.5	9.8				

In situ Respir	ation Data	- FE	Warren	Al	
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1	2-	9	4)

						- 1 Mar.		
Sampling					TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
	9							
33-s	12/7/94	12:11	15.5	5.0				
33-s	12/8/94	8:39	16.0	5.0				
33-m	12/7/94	12:11	11.0	7.5			12.9	
33-m	12/8/94	8:39	11.5	7.5			12.9	
33-d	12/7/94	12:11	0.0	14.5				
33-d	12/8/94	8:39	0.0	14.7				
						,		<u> </u>
34-s	12/7/94	12:10	16.5	2.2]
34-s	12/8/94	8:35	17.7	2.4				
34-m	12/7/94	12:10	15.0	2.1			14.6	
34-m	12/8/94	8:35	16	3.3			14.5	
34-d	12/7/94	12:10	13.3	3.6				1
34-d	12/8/94	8:35	14.5	4.0				

In situ Respiration Test Data - FE Warre FB (3-95) TPH Pump Pres Temp Sampling Comments (ppm) (in Hg) (C) Time 02 (%) CO2 (%) Point Date 3.8 Thermometer died 3/6/95 12:20 15.0 2.8 110 3.5 3-s 7.0 3.9 13:50 2.6 110 3/7/95 15.0 3-s 6.5 3.5 2.5 110 10:36 15.2 3-s 3/8/95 3.6 11:38 14.5 2.9 90 6.5 3-s 3/9/95 6.5 9:37 15.4 3.1 80 3/10/95 3-s 3.0 7.0 120 3-m 12:20 3.3 3/6/95 14.2 6.9 120 6.5 3-m 3/7/95 13:50 13.8 3.0 10:36 13.8 3.0 120 3.0 6.7 3/8/95 3-m 7.0 3.0 11:38 13.2 3.4 10 3/9/95 3-m 6.0 3-m 3/10/95 9:37 13.6 3.6 76 12:20 3.4 120 3.0 13.8 3-d 3/6/95 6.5 13:50 2.9 120 14.2 3-d 3/7/95 6.0 3/8/95 10:36 14.7 2.6 120 3-d 3.0 3-d 3/9/95 11:38 12.8 3.7 100

4-s	3/6/95	12:15	13.7	5.0	150	6.0	5.0	
4-s	3/7/95	13:45	12.8	4.7	140	3.0	5.1	
4-s	3/8/95	10:30	12.5	5.3	110	6.0	4.6	
4-s	3/9/95	11:34	12.6	5.7	120	2.5	4.7	
4-s	3/10/95	9:34	13.5	5.5	100	7.0		
4-m	3/6/95	12:15	10.7	6.9	150	6.5	9.4	
4-m	3/7/95	13:45	10.8	6.8	140	6.0	9.6	
4-m	3/8/95	10:30	11.0	6.4	120	3.5	9.7	
4-m	3/9/95	11:34	10.6	7.0	130	3.0	9.3	
4-m	3/10/95	9:34	12.0	6.8	100	6.5		
4-d	3/6/95	12:15	10.4	7.2	150	6.5	7.9	
4-d	3/7/95	13:45	9.5	7.6	140	6.0	7.4	
4-d	3/8/95	10:30	9.5	8.0	120	7.0	6.9	
4-d	3/9/95	11:34	10.0	7.5	130	3.0	7.0	
4-d	3/10/95	9:34	10.5	8.0	100	6.0		Italics indicate 1:1 dilution

83.

6.5

3.7

9:37

3/10/95

3-d

13.0

5-s	3/6/95	12:45	18.2	3.0	100	3.0	4.0	
5-s	3/7/95	13:35	17.0	2.8	100	2.5	3.8	
5-s	3/8/95	10:20	17.5	2.7	100	2.5	3.5	
5-s	3/9/95	11:30	15.8	3.9	110	3.0	3.4	
5-s	3/10/95	9:31	16.2	4.0	100	2.5		
5-m	3/6/95	12:45	11.0	7.5	130	5.0	5.6	
5-m	3/7/95	13:35	10.0	7.7	110	3.0	5.5	
5-m	3/8/95	10:20	10.5	7.1	120	3.0	5.2	
5-m	3/9/95	11:30	10.3	7.6	120	3.0	8.5	
5-m	3/10/95	9:31	10.6	7.9	100	2.5		Italics indicate 1:1 dilution
5-d	3/6/95	12:45	7.0	10.3	130	3.0		
5-d	3/7/95	13:35	7.5	9.5	120	3.0		·
5-d	3/8/95	10:20	9.0	8.0	120	6.5	1	
5-d	3/9/95	11:30	6.5	10.2	120	6.5		
5-d	3/10/95	9:31	7.0	11.0	110	3.0		Italics indicate 1:1 dilution

FB (3-95) In situ Respiration Test Data - FE Warre Pump Press TPH Temp Sampling (C) Comments 02 (%) CO2 (%) (in Hg) Time (ppm) **Point** Date 5.2 3.0 12:50 16.8 4.3 120 3/6/95 6-5 4.5 6.5 120 17.5 3.7 3/7/95 13:30 6-s 2.5 4.2 120 10:15 15.3 4.9 3/8/95 6-s 3.9 120 2.5 11:25 15.3 5.3 3/9/95 6-5 110 6.5 5.4 15.5 9:28 6-5 3/10/95 7.0 9.0 6.2 130 3/6/95 12:50 15.0 6-m 7.0 8.8 15.0 5.6 140 13:30 3/7/95 6-m 120 3.0 8.8 14.4 5.6 10:15 6-m 3/8/95 3.0 8.5 6.2 120 11:25 14.4 6-m 3/9/95 3.5 14.8 6.0 110 9:28 6-m 3/10/95 130 3.0 6.6 12:50 14.0 6.5 6-d 3/6/95 7.0 6.4 130 13:30 13.5 6.5 3/7/95 6-d 5.6 120 3.0 6.1 14.3 3/8/95 10:15 6-d 5.8 120 2.5 11:25 13.6 6.7 6-d 3/9/95 2.5 110 9:28 13.7 6.8 3/10/95 6-d 140 3.0 4.8 12:10 16.5 10-s 3/6/95 3.0 130 13:15 16.8 4.4 3/7/95 10-s 2.5 110 10:03 16.8 4.0 3/8/95 10-s 2.5 130 16.5 4.7 10-s 3/9/95 11:16 6.5 9:20 17.0 4.7 110 10-s 3/10/95 9.1 5.8 140 3.0 12:10 15.6 10-m 3/6/95 8.8 3.0 140 15.4 5.8 10-m 3/7/95 13:15 8.6 2.5 10:03 15.5 5.3 110 10-m 3/8/95 120 3.0 8.6 15.3 5.8 3/9/95 11:16 10-m 2.5 100 5.6 9:20 16.0 10-m 3/10/95 3.5 15.0 6.5 130 10-d 3/6/95 12:10 3.5 140 13:15 15.0 6.5 3/7/95 10-d 7.5 120 6.0 10-d 3/8/95 10:03 14.5 6.5 130 3.0 11:16 14.5 3/9/95 10-d 7.0 110 9:20 15.2 6.3 10-d 3/10/95 6.5 14.8 6.2 140 12:04 11-s 3/6/95 140 3.0 6.5 13.8 11-s 3/7/95 10:20 120 10:08 14.0 6.0 11-s 3/8/95 2.5 130 14.0 6.3 11:21 11-s 3/9/95 2.5 110 6.0 11-s 3/10/95 9:24 14.9 7.8 3.0 12:04 12.0 8.5 140 11-m 3/6/95 150 6.5 8.5 11.0 10:20 11-m 3/7/95 6.5 11.5 7.8 120 3/8/95 10:08 11-m 3.0 130 11-m 3/9/95 11:21 11.2 8.5 Italics indicate 1:1 dilution 6.5 110 8.8 9:24 11.8 11-m 3/10/95

130

150

130

130

120

12.0

12.0

11.0

12.5

13.0

12:04

10:20

10:08

11:21

9:24

3/6/95

3/7/95

3/8/95

3/9/95

3/10/95

11-d

11-d

11-d

11-d

11-d

8.0

6.7

7.7

6.3

6.8

3.0

3.0

7.0

3.0

6.5

In situ Respiration Test Data - FE Warre B (3-95)

Sampling		1		Ī	TPH	Pump Press	Temp	
Point	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
13-s	3/6/95	11:55	18.0	3.3	130	3.0		
13-s	3/7/95	11:55	16.5	3.3	110	6.0		
13-s	3/8/95	9:46	17.5	2.8	100	3.0		{
13-s	3/9/95	11:00	16.0	3.8	120	6.5		
13-s	3/10/95	9:02	16.2	3.8	110	2.5		
13-m	3/6/95	11:55	17.0	3.7	110	3.0	7.6	
13-m	3/7/95	11:55	16.3	3.5	130	6.5	8.3	
13-m	3/8/95	9:46	16.0	3.5	110	3.0	7.2	
13-m	3/9/95	11:00	15.5	4.0	120	6.5	7.9	
13-m	3/10/95	9:02	15.4	4.0	110	2.5		
13-d	3/6/95	11:55	16.8	3.0	100	3.0		
13-d	3/7/95	11:55	15.7	2.8	120	6.5		3:
13-d	3/8/95	9:46	15.8	2.7	110	6.0		
13-d	3/9/95	11:00	15.0	3.5	110	3.0		
13-d	3/10/95	9:02	14.9	3.6	110	3.0		
	<u></u>			· · · · · · · · · · · · · · · · · · ·				
14-s	3/6/95	11:50	18.5	3.4	100	3.0		
14-s	3/7/95	12:00	19.0	2.2	100	6.0		
14-s	3/8/95	9:40	18.5	2.7	100	3.0		
14-s	3/9/95	10:50	17.8	3.3	100	7.5		
14-s	3/10/95	8:58	18.2	3.3	110	2.5		
14-m	3/6/95	11:50	no flow	no flow		20.0	7.7	
14-m	3/7/95	12:00	17.6	3.6	120	21.0	8.6	Very low flow
14-m	3/8/95	9:40	17.3	3.7	120	3.0	8.2	·
14-m	3/9/95	10:50	17.0	4.0	100	3.0	8.2	
14-m	3/10/95	8:58	17.3	4.2	110	2.5		
14-d	3/6/95	11:50	17.2	4.3	110	3.0		
14-d	3/7/95	12:00	16.6	4.2	110	6.5		
14-d	3/8/95	9:40	16.6	4.0	110	6.5	j	j
14-d	3/9/95	10:50	16.5	4.3	110	4.0		
14-d	3/10/95	8:58	16.7	4.5	110	2.5		
<u> </u>			<u>·</u>			•		
15-s	3/6/95	11:24	18.6	2.7	100	3.0		
15-s	3/7/95	1:05	18.0	2.5	110	3.0		
15-s	3/8/95	9:57	18.0	2.3	100	6.0		
15-s	3/9/95	11:13	18.5	2.5	120	3.0		
15-s	3/10/95	9:09	18.5	3.7	85	2.5		
15-m	3/6/95	11:24	17.7	3.2	110	3.0	7.5	W)
15-m	3/7/95	1:05	17.5	3.0	110	2.5	7.6	~
15-m	3/8/95	9:57	17.3	3.0	100	6.0	7.2	
15-m	3/9/95	11:13	17.3	3.3	130	6.5	7.2	
15-m	3/10/95	9:09	17.5	3.4	90	2.5		
15-d	3/6/95	11:24	17.5	3.5	110	3.0		
15-d	3/7/95	1:05	17.3	3.0	120	-		
15-d	3/8/95	9:57	17.3	2.9	100	6.0		
15-d	3/9/95	11:13	17.0	3.5	130	3.0		
15-d	3/10/95	9:09	17.5	3.5	95	3.0]	

In situ Respiration Test Data - FE Warrer AFB (3-95)

Point Date Time O2 (%) CO2 (%) (ppm) (in Hg) (C) Comments	Sampling		-		I	TPH	Pump .s	Temp	
16-5			Time	02 (%)	CO2 (%)	1	-		Comments
16-s 3/7/95 1:00 16.7 3.3 11.0 3.0 16-s 3/8/95 9:50 17.2 3.0 11.0 3.0 16-s 3/9/95 11:04 16.7 3.7 110 3.0 3.0 16-s 3/10/95 9:06 17.0 3.8 100 3.0 3.0 16-m 3/6/95 11:29 16.5 4.0 130 6.5 16-m 3/7/95 10:00 16.3 3.9 130 3.0 16-m 3/8/95 9:50 16.2 3.7 120 2.5 16-m 3/9/95 11:04 16.2 4.0 120 6.5 16-m 3/0/95 9:06 16.5 4.2 100 2.5 16-m 3/0/95 9:06 16.5 4.2 100 2.5 16-d 3/6/95 11:29 16.0 4.2 130 6.0 16-d 3/6/95 11:29 16.0 4.2 130 6.0 16-d 3/8/95 9:50 16.2 3.7 110 2.5 16-d 3/9/95 11:04 16.0 4.3 120 7.0 16-d 3/10/95 9:06 16.4 4.3 120 7.0 16-d 3/10/95 9:06 16.4 4.3 100 2.5 16-d 3/10/95 9:06 16.4 4.3 100 2.5 16-d 3/10/95 9:06 16.4 4.3 100 2.5 18-s 3/8/95 9:23 15.7 4.8 110 3.0 18-s 3/8/95 9:23 15.7 4.8 110 3.0 18-s 3/8/95 9:23 15.7 4.8 110 3.0 18-s 3/8/95 9:23 15.7 4.8 110 3.0 18-s 3/10/95 8:50 15.5 4.7 120 7.0 18-m 3/6/95 11:39 15.6 4.7 120 3.0 9.4 18-m 3/8/95 9:23 14.7 4.7 130 3.5 8.7 18-m 3/9/95 11:08 14.5 5.3 150 3.0 8.9 18-m 3/9/95 11:08 14.5 5.3 150 3.0 8.9 18-m 3/9/95 11:08 14.5 5.3 150 3.0 8.9 18-m 3/9/95 11:08 14.5 5.3 150 3.0 3.0 18-d 3/9/95 11:08 14.5 5.3 150 3.0 3.0 18-d 3/9/95 11:08 14.5 5.3 150 3.0 3.0 18-d 3/9/95 11:08 14.5 5.3 150 3.0 3.0 18-d 3/9/95 11:08 14.5 5.3 150 3.0 3.0 18-d 3/9/95 11:08 14.5 5.3 150 3.0 3.0 18-d 3/9/95 11:08 14.0 5.3 150 3.0 3.0 19-m 3/9/95 10:047 16.0 3.3 110 3.0 19-m 3/8/95 9:30 16.5 2.8 110 3.0 19-m 3/8/95 9:30 16.5 2.8 110 3.0 19-m 3/8/95 9:30 16.5 2.8 110 3.0 19-m 3/8/95 9:30 16.5 2.8 110 3.0 19-m 3/8/9								(0)	-
16-s 3/8/95 9-50 17.2 3.0 110 2.5 16-s 3/9/95 91.06 17.0 3.8 100 3.0 16-m 3/6/95 11:29 16.5 4.0 130 6.5 16-m 3/6/95 11:29 16.5 4.0 130 6.5 16-m 3/6/95 11:04 16.2 3.7 120 2.5 16-m 3/8/95 95.0 16.2 3.7 120 2.5 16-m 3/10/95 9:06 16.5 4.2 100 2.5 16-d 3/10/95 9:06 16.5 4.2 100 2.5 16-d 3/7/95 1:00 16.0 4.0 120 3.0 16-d 3/7/95 1:04 16.0 4.3 120 7.0 16-d 3/10/95 9:06 16.4 4.3 100 2.5 18-s 3/6/95 11:04 15.7 4.2 130		1	1	ı				. 70	
16-s 3/9/95 11:04 16.7 3.7 110 3.0 16-m 3/10/95 9:06 17:0 3.8 100 3.0 16-m 3/6/95 11:29 16:5 4.0 130 6.5 16-m 3/8/95 9:50 16:2 3.7 120 2.5 16-m 3/9/95 11:04 16:2 4.0 120 6.5 16-m 3/19/95 11:04 16:2 4.0 120 6.5 16-d 3/6/95 11:09 16:0 4.2 130 6.0 16-d 3/6/95 11:00 16.0 4.2 130 6.0 16-d 3/6/95 9:50 16:2 3.7 110 2.5 16-d 3/6/95 9:50 16:2 3.7 110 2.5 18-s 3/6/95 11:39 16:5 4.5 120 3.0 18-s 3/6/95 11:39 16:5 4.2 130	1	l	1	1	1		•		
16-8 3/10/95 9:06 17.0 3.8 100 3.0 16-m 3/6/95 11:29 16.5 4.0 130 6.5 16-m 3/8/95 9:50 16:2 3.7 120 2.5 16-m 3/8/95 9:50 16:2 4.0 120 6.5 16-m 3/6/95 11:04 16:2 4.0 120 6.5 16-d 3/6/95 11:29 16.0 4.2 130 6.0 16-d 3/7/95 1:00 16.0 4.0 120 3.0 16-d 3/7/95 1:04 16.0 4.3 120 7.0 16-d 3/10/95 9:06 16.4 4.3 100 2.5 18-s 3/6/95 11:39 16.5 4.5 120 3.0 18-s 3/7/95 11:40 15.7 4.2 130 3.5 18-s 3/7/95 11:40 15.0 4.7 120		i	1				1		
16-m 3/6/95 11:29 16.5 4.0 130 6.5 16-m 3/7/95 1:00 16.3 3.9 130 3.0 16-m 3/8/95 9:50 16.2 3.7 120 2.5 16-m 3/9/95 11:04 16.2 4.0 120 6.5 16-m 3/10/95 9:06 16.5 4.2 100 2.5 16-d 3/6/95 11:29 16.0 4.2 130 6.0 16-d 3/6/95 1:00 16.0 4.0 120 3.0 16-d 3/8/95 9:50 16.2 3.7 110 2.5 16-d 3/8/95 9:50 16.2 3.7 110 2.5 16-d 3/10/95 9:06 16.4 4.3 120 7.0 16-d 3/10/95 9:06 16.4 4.3 120 7.0 16-d 3/10/95 9:06 16.4 4.3 120 7.0 16-d 3/10/95 9:06 16.4 4.3 100 2.5 18-s 3/6/95 11:39 16.5 4.5 120 3.0 18-s 3/8/95 9:23 15.7 4.8 110 3.0 18-s 3/8/95 9:23 15.7 4.8 110 3.0 18-s 3/10/95 8:50 15.5 4.7 120 7.0 18-m 3/6/95 11:39 15.6 4.7 120 7.0 18-m 3/8/95 9:23 14.7 4.7 130 3.5 8.7 18-m 3/8/95 9:23 14.7 4.7 130 3.5 8.7 18-m 3/9/95 11:08 14.5 5.3 150 3.0 8.9 18-m 3/10/95 8:50 14.7 5.3 120 2.5 18-d 3/6/95 11:39 15.2 4.7 130 3.0 18-d 3/6/95 11:39 15.2 4.7 130 3.0 18-d 3/6/95 11:39 15.2 4.7 130 3.0 18-d 3/7/95 11:40 14.5 4.6 140 3.0 18-d 3/7/95 11:40 14.5 4.6 140 3.0 18-d 3/9/95 11:08 14.5 5.3 150 3.0 18-d 3/9/95 11:08 14.0 5.6 120 2.5 19-s 3/6/95 11:44 17.9 3.0 100 2.5 19-s 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/6/95 11:44 17.0 3.3 110 3.0 19-m 3/6/95 11:44 17.0 3.3 110 3.0 19-m 3/6/95 11:44 17.0 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/6/95 11:44 17.2 3.0 100 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7	4		1						
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19-s 3/6/95 11:44 17.9 3.0 100 2.5 19-s 3/7/95 11:45 16.7 3.0 120 3.0 19-s 3/8/95 9:30 16.5 2.8 110 3.0 19-s 3/9/95 10:47 16.0 3.3 110 2.5 19-s 3/10/95 8:54 15.8 3.7 110 2.5 19-m 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	1	3/8/95	9:23		- 1	- 1	I		
19-s 3/6/95 11:44 17.9 3.0 100 2.5 19-s 3/7/95 11:45 16.7 3.0 120 3.0 19-s 3/8/95 9:30 16.5 2.8 110 3.0 19-s 3/9/95 10:47 16.0 3.3 110 2.5 19-s 3/10/95 8:54 15.8 3.7 110 2.5 19-m 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	18-d	3/9/95	11:08	14.0	5.3	1	I	1	
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19-s 3/7/95 11:45 16.7 3.0 120 3.0 19-s 3/8/95 9:30 16.5 2.8 110 3.0 19-s 3/9/95 10:47 16.0 3.3 110 2.5 19-s 3/10/95 8:54 15.8 3.7 110 2.5 19-m 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0									
19-s 3/8/95 9:30 16.5 2.8 110 3.0 19-s 3/9/95 10:47 16.0 3.3 110 2.5 19-s 3/10/95 8:54 15.8 3.7 110 2.5 19-m 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	1 1	3/6/95	11:44	17.9	3.0	100	2.5	- 1	
19-s 3/9/95 10:47 16.0 3.3 110 2.5 19-s 3/10/95 8:54 15.8 3.7 110 2.5 19-m 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	1 1	3/7/95	1	16.7	3.0		i		
19-s 3/10/95 8:54 15.8 3.7 110 2.5 19-m 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	1 1	3/8/95					1		
19-m 3/6/95 11:44 17.0 3.3 100 3.0 19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	1 1	3/9/95	- 1	16.0			1		
19-m 3/7/95 11:45 16.2 3.3 110 3.0 19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	19-s	3/10/95	8:54	15.8	3.7	110			
19-m 3/8/95 9:30 15.4 3.3 110 3.0 19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	19-m	3/6/95	11:44	17.0	3.3	100	(
19-m 3/9/95 10:47 14.7 3.8 100 2.5 19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	19-m	3/7/95	11:45	16.2	3.3	110			
19-m 3/10/95 8:54 14.8 4.0 120 2.5 19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	19-m	3/8/95	9:30	15.4	3.3	110		-	
19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	19-m	3/9/95	10:47	14.7	3.8	100	2.5	1	
19-d 3/6/95 11:44 17.2 3.0 100 7.0 19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	19-m	3/10/95	8:54	14.8	4.0	120	2.5		
19-d 3/7/95 11:45 16.2 3.0 110 3.5 19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0	19-d				3.0	100	7.0		
19-d 3/8/95 9:30 16.0 2.9 120 2.5 19-d 3/9/95 10:47 14.6 3.7 100 3.0		1	,		1	110	3.5		
19-d 3/9/95 10:47 14.6 3.7 100 3.0	1 1					- 1	2.5	İ	
	1		ı			100	3.0		
	19-d	3/10/95	8:54	14.6	3.8	120	2.5		

In situ Respiration Test Data - FE Warre FB (3-95)

Ca!!	-				TTOT T	Burn I	Temp	
Sampling		T:	02 (9/)	CO2 (%)	TPH (222)	Pump Press	-	1
Point 27-s	Date	Time	02 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
27-s 27-s	3/6/95	10:35	16.5	4.5	120	3.0		
1	3/7/95	11:30	16.0	4.5	120	1	1	
27-s	3/8/95	9:16	16.4	3.5	120	3.0		
27-s	3/9/95	10:41	15.8	4.3	130	3.0		
27-s	3/10/95	8:38	16.5	4.5	120	7.0	0.0	
27-m	3/6/95	10:35	13.5	7.0	130	7.0	8.2	
27-m	3/7/95	11:30	12.5	7.0	130	3.5	8.0	22
27-m	3/8/95	9:16	13.0	6.0	130	3.0	7.4	
27-m	3/9/95	10:41	13.0	6.3	120	3.0	7.4	
27-m	3/10/95	8:38	13.7	6.7	130	7.0		
27-d	3/6/95	10:35	12.8	7.4	130	7.0		
27-d	3/7/95	11:30	11.8	7.4	130	3.0		
27-d	3/8/95	9:16	12.5	6.0	130	3.0		
27-d	3/9/95	10:41	12.4	6.7	120	3.0		
27-d	3/10/95	8:38	12.5	6.9	120	6.5		
28-s	3/6/95	10:40	14.8	4.7	130	6.5		
28-s	3/7/95	11:25	9.8	7.5	130	3.5		
28-s	3/8/95	9:11	10.2	5.6	120	3.0		
28-s	3/9/95	10:37	12.0	6.6	120	3.0		
28-s	3/10/95	8:34	13.0	6.6	130	3.0		
28-m	3/6/95	10:40	9.0	10.2	140	3.0	9.5	
28-m	3/7/95	11:25	7.0	10.0	140	3.0	9.3	[
28-m	3/8/95	9:11	8.0	8.5	110	3.0	9.0	
28-m	3/9/95	10:37	8.5	9.4	130			Italics indicate 1:1 dilution
28-m	3/10/95	8:34	8.5	9.5	130	6.0		
28-d	3/6/95	10:40	3.5	15.5	140	7.0		
28-d	3/7/95	11:25	1.8	14.0	130	3.0		
28-d	3/8/95	9:11	3.0	12.5	120	3.0		
28-d	3/9/95	10:37	4.4	12.3	140	3.0		Italics indicate 1:1 dilution
28-d	3/10/95	8:34	4.5	12.8	130	6.0		
29-s	3/6/95	10:45	12.0	6.3	130	7.0		
29-s	3/7/95	11:20	12.5	6.0	110	3.0		
29-s	3/8/95	9:06	12.6	5.7	110	3.0		
29-s	3/9/95	10:32	13.0	6.2	130	6.5		
29-s	3/10/95	8:30	14.0	5.6	130	3.0		
29-m	3/6/95	10:45	8.0	10.2	130	6.5	8.0	
29-m	3/7/95	11:20	6.5	9.5	120	3.0	7.6	
29-m	3/8/95	9:06	7.2	9.0	120	3.0	8.1	
29-m	3/9/95	10:32	7.2	9.3	140	3.0	7.6	Italics indicate 1:1 dilution
29-m	3/10/95	8:30	7.8	9.4	130	3.0		
29-d	3/6/95	10:45	5.7	12.5	130	7.0		
29-d	3/7/95	11:20	3.8	12.0	130	3.0		
29-d	3/8/95	9:06	5.5	9.8	120	3.0		
29-d	3/9/95	10:32	4.5	11.2	130	3.0		Italics indicate 1:1 dilution
29-d	3/10/95	8:30	5.3	11.5	130	3.0		
27-U	2/10/30	0.50	3.3	11.0	100	5.0		

In situ Respiration Test Data - FE Warre FB (3-95)

Sampling				F	TPH	Pump Press	Temp	
Point	Date	Time	O2 (%)	CO2 (%)	(ppm)	(in Hg)	(C)	Comments
32-s	3/6/95	9:40	54.9	.9	150	21.0	(0)	very low flow
32-s	3/7/95	10:40	58.5	1.7	120	20.0		l day low now
32-s	3/8/95	8:30	31.5	1.5	90	6.5		
32-s	3/9/95	10:00	32.0	1.9	90	10.0		
32-s	3/10/95	8:17	21.5	2.5	100	20.0		
32-m	3/6/95	9:40	45.9	2.5	130	14.0	9.0	low flow
32-m	3/7/95	10:40	48.5	2.5	130	12.0	9.3	
32-m	3/8/95	8:30	40.0	3.2	120	8.0	9.6	
32-m	3/9/95	10:00	15.5	3.8	130	7.5	8.4	1
32-m	3/10/95	8:17	12.3	4.7	120	13.0	0.1	
32-ht	3/6/95	9:40	37.0	2.3	150	6.5		1:2 Dilution
	3/7/95	10:40	57.0	2.2	120	6.0		
32-d			37.5	3.5	220	6.5		No purge
32-d	3/8/95	8:30		3.5 4.7	270	3.0		Italics indicate 1:1 dilution
32-d	3/9/95	10:00	7.5	4.7	240	6.0		The second secon
32-d	3/10/95	8:17	8.8	4./	240	0.0		
22 -	2/6/05	0.20	17.5	4.3	140	7.0		
33-s	3/6/95	9:30	17.5	4.3	110	6.0		
33-s	3/7/95	11:00			110	2.5		
33-s	3/8/95	8:55	17.5	3.6		2.5		
33-s	3/9/95	10:20	17.5	3.7	120	6.5		
33-s	3/10/95	8:20	17.8	3.8	120	6.5	9.3	
33-m	3/6/95	9:30	15.7	5.6	160	4.0	9.3	·
33-m	3/7/95	11:00	15.0	5.8	120	3.5	9.0	
33-m	3/8/95	8:55	15.7	4.8	120	3.5	8.8	
33-m	3/9/95	10:20	15.6	5.3	130	7.5	0.0	
33-m	3/10/95	8:20	16.0	5.3	120 900	6.0		
33-d	3/6/95	9:30	.8	13.0				
33-d	3/7/95	11:00	.0	12.5	1,000	6.0		
33-d	3/8/95	8:55	.5	11.8	1,000	5.5		
33-d	3/9/95	10:20	.2	11.2	600	5.0		
33-d	3/10/95	8:20	.5	12.0	500	9.5		
	- 1110	1			110	(5)		
34-s	3/6/95	9:25	16.0	5.5	140	6.5		
34-s	3/7/95	11:10	14.0	6.5	130	6.5		
34-s	3/8/95	9:00	15.0	5.5	130	3.0		
34-s	3/9/95	10:27	15.0	5.8	130	2.5		
34-s	3/10/95	8:25	15.4	5.6	100	2.5	10.7	
34-m	3/6/95	9:25	14.5	7.0	140	6.5	10.7	
34-m	3/7/95	11:10	11.5	7.5	130	6.0		
34-m	3/8/95	9:00	13.8	6.5	130	3.0	10.0	
34-m	3/9/95	10:27	13.5	7.2	120	3.0	9.8	
34-m	3/10/95	8:25	14.0	7.0	130	3.0		
34-d	3/6/95	9:25	12.5	8.8	150	7.0		
34-d	3/7/95	11:10	11.2	8.8	140	7 .0		
34-d	3/8/95	9:00	12.5	7.3	120	3.0		
34-d	3/9/95	10:27	12.3	8.0	110	2.5		
34-d	3/10/95	8:25	12.5	7.8	110	2.5		

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APPENDIX 18 RESPIRATION TEST REGRESSION RESULTS

Respiration	2	Mean	[I	Mean CO2	1	T
Monitoring		O2 Uptake Rate		†	Production Rate		
Points	Depth (ft)	(%/hr)	95% CI	p Value	(%/hr)	95% CI	1 - 3V-1-
1	1 3	0.0162	NS	0.1362	-0.0177	NS	p Valu
	5.5	0.0123	NS	0.4895	-0.0161	NS	0.1188
	8	0.0304	0.0088	0.0145	-0.051	0.0118	0.4918
2	3	0.0013	NS	0.8252	-0.0104	NS	0.0110
	5.5	-0.0112	NS	0.2142	-0.0054	NS	0.6002
	8	-0.0225	0.0222	0.0475	-0.0033	NS	0.7661
3	3	0.017	NS	0.0846	-0.0147	NS	0.7001
	5.5	-0.0098	NS	0.4259	-0.0069	NS	0.1173
	8	-0.0055	NS	0.6308	-0.0069	NS	0.6169
4	3	-0.0373	0.0303	0.0237	-0.0001	NS	0.9941
	5.5	-0.0376	0.0375	0.0502	0.0025	NS	0.8096
·	8	-0.089	0.06	0.0125	0.043	0.042	0.8090
5	3	-0.0179	NS	0.4148	-0.0038	NS	0.7461
	5.5	-0.0194	NS	0.3293	-0.0038	NS	
	8	need more data	110	0.5295	-0.0161	142	0.5231
6	3	-0.0173	0.0161	0.0392	-0.0049	NS	0.5676
	5.5	-0.0242	0.0101	0.0392	-0.0069	NS NS	0.5676
	. 8	-0.0322	0.0267	0.0219	0.0032		0.7291
7	3	-0.0041	NS	0.9062	-0.0047	NS	0.7705
	5.5	-0.0096	0.0088	0.9002		NS	0.5674
	8	-0.0096		0.0374	-0.0027	NS	0.5794
8	3	0.0042	0.0062 NS		0.0004	NS	0.9132
	5.5	-0.0042	NS NS	0.2649 0.4139	-0.008	NS	0.1629
	8				-0.0022	NS	0.6991
9	3	-0.0093	NS 0.004	0.1227	-0.0014	NS	0.787
	5.5	-0.005	0.004	0.0191	-0.00006	NS	0.9814
	8	-0.011	0.004	0.0012	100.0	NS	0.6767
10	3	-0.0193	0.0125	0.0092	0.0007	NS	0.7115
10		-0.0105	NS	0.01195	-0.0076	NS	0.4033
	5.5	-0.0191	0.0153	0.0225	0.0001	NS	0.9942
11	8	-0.0243	0.0156	0.009	0.0129	NS	0.0526
11	3	-0.0229	0.0216	0.0409	-0.0009	NS	0.9255
	5.5	-0.0557	0.0336	0.0066	0.0055	NS	0.7033
	8	need more data				1	
12	3	-0.009	NS	0.1331	-0.0049	NS	0.4308
	5.5	-0.0213	0.0131	0.0074	0.0003	NS	0.9592
	8	-0.0253	0.0123	0.0024	0.0047	NS	0.3952
13	3	-0.0311	0.0194	0.0078	0.0014	NS	0.8236
	5.5	-0.0336	0.0135	0.0009	0.0029	NS	0.5751
	8	-0.0445	0.0097	0.0001	0.0071	NS	0.3851
14	3	-0.007	0.006	0.0247	-0.0016	NS	0.7201
	5.5	-0.019	0.0085	0.0016	-0.0042	NS	0.4499
	8	-0.0212	0.0096	0.0016	0.0027	NS	0.5364
15	3	-0.0068	0.0066	0.0447	-0.0107	NS	0.1143
	5.5	-0.0083	0.0077	0.0383	-0.0015	NS	0.7548
	8	-0.0114	0.0045	0.0008	0.0051	NS	0.1711
16	3	-0.0041	NS	0.5267	0.0018	NS	0.7486
	5.5	-0.0177	NS	0.0532	-0.0013	NS	0.8732
1	8	-0.0149	0.0102	0.0332	0.0065	0.0062	0.0414
17	3	-0.0233	0.0102	0.0027	-0.0002	NS NS	0.9754
	5.5	-0.0192	0.0110	0.0027	0.0075	NS	0.1306
	8	-0.0192	0.0082	0.0002	0.0187	0.0096	0.0031

Respiration		Mean			Mean CO2		1
Monitoring		O2 Uptake Rate			Production Rate		
Points	Depth (ft)	(%/hr)	95% CI	p Value	(%/hr)	95% CI	p Value
18	3	-0.0065	NS	0.4422	-0.013	NS	0.2049
	5.5	-0.0246	0.0228	0.0384	-0.0007	NS	0.9481
	8	-0.036	0.026	0.0171	0.0032	NS	0.8045
19	3	-0.0376	0.0116	0.0002	0.0084	NS	0.2055
	5.5	-0.0437	0.012	0.0001	0.0075	NS	0.1419
	8	-0.047	0.01	0.0001	0.0164	NS	0.0941
20	3	-0.0059	0.0037	0.0082	-0.002	NS	0.3992
	5.5	-0.0057	NS	0.076	0.0002	NS	0.8881
	8	-0.0093	0.0047	0.0028	0.0009	NS	0.1302
21	3	-0.0038	NS	0.154	-0.0017	NS	0.5539
	5.5	-0.0038	NS	0.0858	-0.0022	NS	0.4149
i	8	-0.0086	0.0046	0.0037	0.0001	NS	0.8575
22	3	-0.0074	NS	0.1871	-0.0001	NS	0.9794
	5.5	-0.0116	NS	0.0865	0.0036	NS	0.2931
	8	-0.0194	0.0074	0.0007	0.0051	NS	0.052
23	3	-0.0102	0.0097	0.0423	-0.0004	NS	0.9229
	5.5	-0.0255	0.0095	0.0006	-0.001	NS	0.8061
	8	-0.0319	0.0092	0.0002	0.0106	NS	0.08889
24	3	-0.0242	0.0217	0.0343	0.001	NS	0.8539
	5.5	-0.0381	0.0117	0.0002	0.0058	NS	0.3111
	8	-0.0423	0.0103	0.0001	0.0133	NS	0.1353
25	3	-0.0029	NS	0.02116	0.0008	NS	0.8737
	5.5	-0.0017	NS	0.4732	-0.0005	NS	0.8684
	8	-0.0046	NS	0.0583	0.0004	NS	0.7411
26	3	-0.0054	NS	0.0558	0.0011	NS	0.6401
	5.5	-0.0076	0.0052	0.0114	0.0003	NS	0.7934
	8	-0.0075	0.0058	0.0114	0.0014	NS	0.173
27	3	-0.0238	0.0142	0.0063	-0.0034	NS	0.6344
	5.5	-0.0499	0.0142	0.0002	0.0107	NS	0.1708
i	8	-0.0525	0.0147	0.0069	0.0298	0.01	0.0003
			0.0319	0.0009	0.0296	0.01	0.0003
28	3	need more data					
	5.5	need more data					<u> </u>
	8	need more data					
29	3	-0.063	0.043	0.0133	0.0056	NS	0.6155
	5.5	-0.0869	0.0273	0.0002	-0.015	NS	0.5853
Ĭ.	8	-0.2245	0.14	0.0112	0.0708	0.0491	0.0161
30	3	-0.0016	NS	0.5323	-0.0007	NS	0.5739
1	5.5	0.0011	NS	0.7551	0.0004	NS	0.6716
	8	-0.0007	NS	0.8263	0.0006	NS I	0.6628 0.1919
31	3	1000.0-	NS	0.9809	-0.0017	NS	0.1919
	5.5	0.0059	NS	0.1672 0.7333	-0.0009 -0.0012	NS NS	0.4807
32	8	0.0012	NS NS	0.7333	0.0054	NS	0.2996
34	5.5	-0.0131 -0.0164	NS NS	0.0327	-0.0161	NS NS	0.457
			113	0.2774	-0.0101	1,10	0.737
	8	need more data		0.000	0.000	0.0257	0.0201
33	3	0.0428	0.0218	0.003	-0.033	0.0257	
	5.5	0.0431	0.0221	0.0031	-0.0289	NS	0.0798
j	8	need more data			0.000		0.4050
		-0.0333	0.0078	0.0002	0.003	NS	0.4859
34	3				0.0000	3.70	00000
34	5.5 8	-0.0465 -0.0547	0.0142 0.0138	0.0002 0.0001	-0.00034 0.015	NS 0.012	0.9575 0.0263

Respiration		Mean			Mean CO2		
Monitoring		O2 Uptake Rate			Production Rate		
Points	Depth (ft)	(1/hr)	95% CI	p Value	(1/hr)	95% CI	p Val
<u> </u>	1 3	0.0012	NS	0.1647	-0.0009	NS	0.83
	5.5	0.0014	NS	0.43	-0.0014	NS	0.565
	8	0.0046	0.0006	0.0068	-0.0041	0.0005	0.007
2	3	0.0001	NS	0.8276	-0.0023	NS	0.231
	5.5	-0.0007	NS	0.2086	-0.0008	NS	0.673
	8	-0.0016	0.0015	0.0417	-0.0004	NS	0.838
3	3	0.001	NS	0.0891	-0.003	NS	0.130
	5.5	-0.0006	NS	0.4103	-0.0011	NS	0.510
	8	-0.0003	NS	0.6296	-0.0009	NS	0.746
4	3	-0.0027	0.002	0.0176	0.0002	NS	0.933
	5.5	-0.0033	0.003	0.0375	0.0005	NS	0.788
	8	-0.006	0.0056	0.0404	0.0043	NS	0.269
5	3	-0.0012	NS	0.4202	-0.0005	NS	0.785
	5.5	-0.0021	NS	0.3196	-0.0012	NS	0.617
	8	need more data					0.017
6	3	-0.0011	0.001	0.0351	-0.0008	NS	0.654
	5.5	-0.0016	0.0012	0.018	-0.0009	NS	0.755
	8	-0.0022	0.0017	0.0199	0.0007	NS	0.737
7	3	0.00004	NS	0.8901	-0.0014	NS	0.712
1	5.5	-0.0096	0.0005	0.037	-0.0008	NS	0.639
	8	-0.0006	0.0003	0.0037	2	NS	0.884
8	3	0.0002	NS	0.2636	-0.0022	NS	0.190
	5.5	-0.0002	NS	0.4148	-0.0005	NS	0.764
	8	-0.005	NS	0.1183	-0.0003	NS	0.837
9	3	-0.0002	0.0001	0.0186	0.0001	NS	0.954
<u> </u>	5.5	-0.0006	0.0005	0.0307	0.0008	NS	0.6804
	8	-0.001	0.0007	0.0097	0.0007	NS	0.710
10	3	-0.0006	NS	0.1151	-0.0014	NS	0.4729
	5.5	-0.0011	0.0009	0.0202	0.0001	NS	0.472
1	8	-0.0014	0.0009	0.0202	0.0031	NS	0.930
11	3	-0.0014	0.0005	0.0076	-0.00004	NS	0.9803
	5.5	-0.0052	0.0013	0.0387	0.0008	NS	
			0.0028	0.0041	0.0000	142	0.7296
12	8	need more data					
12	3	-0.0005	NS	0.1294	-0.0013	NS	0.5152
	5.5	-0.0012	0.0007	0.0065	0.0002	NS	0.9129
12	8	-0.0015	0.0007	0.002	0.0013	NS	0.4158
13	3	-0.0018	0.0011	0.0079	0.0004	NS	0.788
	5.5	-0.002	0.0007	0.0007	0.0008	NS	0.5697
	8	-0.0025	0.0005	0.0001	0.003	NS	0.133
14	3	-0.0004	0.0003	0.0234	-0.0005	NS	0.8085
	5.5	-0.001	0.0004	0.0015	-0.0015	NS	0.4424
	8	-0.0012	0.0005	0.0013	0.001	NS	0.5415
15	3	-0.0004	0.0003	0.043	-0.0055	NS	0.1171
	5.5	-0.0004	0.0004	0.0369	-0.0004	NS	0.852
	8	-0.0006	0.0002	0.0008	0.0031	NS	0.2303
16	3	-0.0002	NS	0.5405	0.001	NS	0.7361
	5.5	-0.0009		0.0481	-0.0002	NS	0.9838
	8	-0.0008	0.0006	0.0116	0.0042	NS	0.0659
17	3	-0.0013	0.0006	0.0023	-0.00002	NS	0.9925
	5.5	-0.0011	0.0007	0.0142	0.0026	NS	0.1722
	8	-0.0014	0.0005	0.0002	0.0066	0.0038	0.0052

Respiration		Mean			Mean CO2	I	1
Monitoring		O2 Uptake Rate			Production Rate	i	
Points	Depth (ft)	(1/hr)	95% CI	p Value	(1/hr)	95% CI	p Val
18	3	-0.0004	NS	0.4437	-0.0024	NS	0.240
	5.5	-0.0016	0.0014	0.0328	0.00003	NS	0.985
	8	-0.0024	0.0017	0.0145	0.0008	NS	0.742
19	3	-0.0022	0.0007	0.0002	0.0024	NS	0.249
	5.5	-0.0026	0.0007	0.0001	0.0025	NS	0.181
	8	-0.0027	0.0005	0.0001	0.0094	NS	0.169
20	3	-0.0003	0.0002	0.0081	-0.0016	NS	0.440
	5.5	-0.0003	NS	0.0735	0.0003	NS	0.825
	8	-0.0005	0.0002	0.0027	0.0015	NS	0.134
21	3	-0.0002	NS	0.1533	-0.001	NS	0.631
	5.5	-0.0002	NS	0.0851	-0.0017	NS	0.446
	8	-0.0004	0.0002	0.0035	0.0002	NS	0.860
22	3	-0.0004	NS	0.1819	0.0001	NS	0.959
	5.5	-0.0006	NS	0.0847	0.0019	NS	0.339
	8	-0.001	0.0004	0.0006	0.0038	NS	0.068
23	3	-0.0005	0.0006	0.0434	-0.0001	NS	0.971
	5.5	-0.0014	0.0005	0.0005	-0.0003	NS	0.877
	8	-0.0018	0.0005	0.0001	0.0058	NS	0.069
24	3	-0.0014	0.0012	0.03	0.0004	NS	0.826
	5.5	-0.0022	0.0007	0.0002	0.0021	NS	0.355
	8	-0.0024	0.0005	0.0001	0.0073	NS	0.141
25	3	-0.0001	NS	0.2118	0.0007	NS	0.8003
	5.5	-0.0001	NS	0.4714	-0.0001	NS	0.975
	8	-0.0002	NS	0.0575	0.0006	NS	0.7386
26 i	3	-0.0003	NS	0.0546	0.0012	NS	0.622
	5.5	-0.0004	0.0003	0.011	0.0004	NS	0.785
	8	-0.0004	0.0003	0.0114	0.0018	NS	0.1895
27	3	-0.0014	0.0008	0.0059	-0.0006	NS	0.6911
	5.5	-0.0032	0.001	0.0001	0.0025	NS	0.1722
	8	-0.0032	0.002	0.0083	0.0091	0.0042	0.0018
28	3	need more data	0.002	0.0003	0.0071	0.00-2	0.0010
	5.5	need more data					
	8	need more data					
29	3	-0.0049	0.003	0.0087	0.0012	NS	0.5497
	5.5	-0.022	0.007	0.0003	-0.0015	NS	0.6208
- 20	8	-0.0289	0.0091	0.0009	0.013	0.0121	0.0406
30	3	-0.0001	NS	0.5363	-0.001	NS	0.6135
	5.5	0.0001	NS	0.7526	0.0006	NS	0.719
	8	-0.00004	NS	0.8282	1100.0	NS	0.5958
31	3	-0.00003	NS	0.9842	-0.0021	NS	0.2073
	5.5	0.0003	NS	0.166	-0.0012	NS	0.4065
	8	0.0001	NS	0.7253	-0.0014	NS	0.516
32	3	-0.0008	NS	0.051	0.0015	NS	0.3097
	5.5	-0.0022	NS	0.3222	-0.0012	NS	0.4875
	8	need more data					
33	3	0.0031	0.0018	0.0052	-0.0041	0.0028	0.0115
	5.5	0.0038	0.0017	0.0066	-0.0028	NS	0.0711
	8	need more data				1	3.4.4.
34	3	-0.002	0.0005	0.0001	0.0007	NS	0.4912
	5.5	-0.0031	0.0009	0.0001	-0.0001	NS	0.9214
	8	-0.0039	0.0008	0.0001	0.0034	0.0029	0.0291



Respiration	10	Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production	<u></u>		
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Valu
1	3	0.0069	NS	0.2008	0.2655	-0.0021	NS	0.0139	0.7808
	5.5	0.0184	NS	0.1815	0.2926	-0.0130	NS	0.1129	0.4158
	8	-0.4020	NS	0.7081	0.1585	0.3730	NS	0.8043	0.1032
2	3	0.0066	NS	0.2960	0.1633	-0.0051	NS	0.2638	0.1930
	5.5	0.0147	0.0090	0.7264	0.0072	-0.0104	NS	0.3898	0.0980
	8	0.0180	NS	0.4414	0.0723	-0.0116	NS	0.1974	0.2701
3	3	-0.0300	NS	0.1257	0.4353	0.0191	NS	0.0947	0.5020
	5.5	-0.0253	NS	0.1149	0.4571	0.0214	NS	0.1128	0.4613
	8	-0.0167	NS	0.0337	0.6935	0.0239	NS	0.0978	0.4948
4	3	-0.0794	NS	0.2369	0.2680	0.0612	NS	0.2401	0.2643
	5.5	-0.0532	NS	0.1970	0.3185	0.0493	NS	0.2023	0.3112
	8	-0.4383	NS	0.6774	0.1769	0.4029	NS	0.7275	0.1471
5	3	-0.0284	NS	0.4006	0.1271	0.0131	NS	0.1840	0.3369
I	5.5	-0.0471	NS	0.1681	0.3610	0.0488	NS	0.2352	0.2700
	8	-0.2325	NS	0.4264	0.2322	0.1833	NS	0.4187	0.2379
6	3	-0.0488	0.0225	0.8611	0.0026	0.0159	NS	0.5642	0.0516
	5.5	-0.0866	0.0751	0.6376	0.0313	0.0362	NS	0.3699	0.1474
	8	-0.0796	0.0774	0.5831	0.0457	0.0434	NS	0.5231	0.0662
7	3	-0.0072	NS	0.1162	0.4086	0.0012	NS	0.0075	0.8386
	5.5	-0.0136	NS	0.3305	0.1360	0.0051	NS	0.0139 0.1129 0.8043 0.2638 0.3898 0.1974 0.0947 0.1128 0.0978 0.2401 0.2023 0.7275 0.1840 0.2352 0.4187 0.5642 0.3699 0.5231 0.0075 0.1148 0.2074 0.4614 0.4652 0.6674 0.1453 0.3353 0.3443 0.0000 0.4492 0.8055 0.2488 0.2462 0.2878 0.4220 0.5726 0.7824 0.6630 0.6301 0.5818 0.5065 0.7154 0.9008	0.4117
	8	-0.0168	NS	0.4167	0.0838	0.0064	NS	0.2074	0.2569
8	3	-0.0422	0.0332	0.7574	0.0242	0.0138	NS	0.4614	0.1378
	5.5	-0.0345	0.0270	0.7590	0.0238	0.0130	NS	0.4652	0.1356
	8	-0.0448	0.0290	0.8216	0.0127	0.0192	0.0188	0.6674	0.0472
9	3	-0.0125	NS	0.5937	0.0729	0.0054	NS	0.1453	0.4559
	5.5	-0.0208	0.0139	0.8130	0.0140	0.0024	NS	0.3353	0.2285
	8	-0.0167	0.0122	0.7803	0.0196	0.0010	NS	0.3443	0.2209
10	3	-0.0116	NS	0.4342	0.1546	-0.0001	NS	0.0000	0.9944
	5.5	-0.0310	0.0211	0.8058	0.0152	0.0111	NS	0.4492	0.1452
	8	-0.0567	0.0372	0.8172	0.0134	0.0328	0.0224	0.8055	0.0152
11	3	0.0174	NS	0.3138	0.0922	-0.0108	NS	0.2488	0.1422
	5.5	-0.0452	NS	0.1637	0.3201	0.0485	NS	0.2462	0.2111
	8	-0.0331	NS	0.0985	0.5446	0.0860	NS	0.2878	0.2725
12	3	-0.0192	0.0041	0.9667	0.0001	0.0025	NS	0.4220	0.1143
i	5.5	-0.0235	0.0090	0.9003	0.0011	0.0050	0.0049	0.5726	0.0489
	8	-0.0282	0.0128	0.8650	0.0024	0.0090	0.0055	0.7824	0.0082
13	3	-0.1074	0.0608	0.8576	0.0080	0.0418	0.0414	0.6630	0.0486
i	5.5	-0.0980	0.0442	0.9047	0.0035	0.0401	NS	0.6301	0.0594
	8	-0.1161	0.0262	0.9742	0.0003	0.0136	NS	0.5818	0.0777
14	3	-0.0203	0.0090	0.9068	0.0034	0.0049	NS	0.5065	0.1127
	5.5	-0.0365	0.0178	0.8913	0.0046	0.0111	0.0098	0.7154	0.0338
	8	-0.0452	0.0170	0.9321	0.0018	0.0151	0.0069	0.9008	0.0038
15	3	-0.0027	NS	0.2770	0.2249	-0.0002	NS	0.0525	0.6213

Respiration	ı	Mean O2	Ī	1		Mean CO2			1
Monitoring	Depth			†		Production	1		
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)		-02	
	5.5	-0.0071	0.0039	0.8128	0.0055	0.0021	0.0020	0.5781 0.8145 0.7153 0.7730 0.9581 0.4177 0.8270 0.9526 0.3055 0.6698 0.9472 0.8165 0.9333 0.9836 0.0198 0.8663 0.7869 0.1340 0.4745 0.5893 0.0835 0.7609 0.9727 0.3556 0.7984 0.9734 0.9734 0.0246 0.6531 0.9232 0.5539 0.5751 0.1721 0.5516 0.6303 0.8311	p Valu
	8	-0.0117	0.0051	0.8742	0.0020	0.0052	0.0028		0.047
16	3	-0.0092	0.0053	0.8039	0.0062	0.0037	0.0026		0.005
	5.5	-0.0159	0.0058	0.9084	0.0009	0.0078	0.0049		0.016
	8	-0.0187	0.0055	0.9368	0.0003	0.0076	0.0020		0.009
17	3	-0.0084	0.0075	0.6215	0.0352	0.0028	NS		0.000
	5.5	-0.0133	0.0079	0.7891	0.0075	0.0079	0.0041		0.116
	8	-0.0229	0.0111	0.8480	0.0032	0.0150	0.0039		0.004
18	3	-0.0446	NS	0.5307	0.0633	0.0228	NS		0.000
	5.5	-0.0738	0.0507	0.7371	0.0134	0.0422	0.0340		0.198
i	8	-0.1219	0.0578	0.8548	0.0029	0.0488	0.0132		0.024
19	3	-0.0681	0.0253	0.9333	0.0017	0.0176	0.0132		0.000
	5.5	-0.0935	0.0324	0.9415	0.0017	0.0293	0.0110		0.013
	8	-0.0885	0.0180	0.9790	0.0002	0.0285	0.0051		
20	3	-0.0013	NS	0.0753	0.5514	0.0001	NS		0.000
	5.5	-0.0027	NS	0.2232	0.2843	0.0001	0.0003		0.002
	8	-0.0094	0.0029	0.9346	0.0004	0.0004	0.0008		0.002
21	3	-0.0012	NS	0.1244	0.4377	-0.0007	NS		0.4194
	5.5	-0.0053	0.0044	0.6609	0.0262	0.0009	NS	<u> </u>	0.4194
	8	-0.0089	0.0031	0.9152	0.0007	0.0003	0.0010		0.0439
22	3	-0.0029	NS	0.1870	0.3325	-0.0012	NS		0.5297
	5.5	-0.0180	0.0099	0.8132	0.0055	0.0062	0.0037		0.0104
	8	-0.0023	0.0052	0.9509	0.0002	0.0084	0.0740		0.0104
23	3	-0.0141	0.0054	0.9030	0.0010	0.0032	NS		0.1576
	5.5	-0.0291	0.0067	0.9617	0.0001	0.0059	0.0034		0.1376
	8	-0.0379	0.0115	0.9345	0.0004	0.0132	0.0034		0.0007
24	3	-0.0410	0.0367	0.7069	0.0360	0.0029	NS		0.7666
	5.5	-0.0071	0.0243	0.9428	0.0013	0.0029	NS		0.7666
	8	-0.0892	0.0147	0.9861	0.0001	0.0292	0.0117		0.0023
25	3	-0.0037	NS NS	0.0619	0.6345	0.0292	0.0117		0.0023
	5.5	-0.0127	0.0080	0.8280	0.0343	0.0034	0.0117		0.0805
	8	-0.0089	0.0029	0.9475	0.0011		NS		
26	3	-0.0036	0.0029	0.6165		0.0007 j			0.4135
	5.5	-0.0066	0.0033		0.0365	0.0021	NS		
	8	-0.0082		0.8044	0.0062	0.0011	0.0010		0.0330
27	3	0.0170	0.0039	0.8528	0.0030	0.0014	0.0007		0.0042
	5.5	-0.0868	NS 0.0574	0.1192	0.5027	-0.0070	NS	0.0386	0.7091
!	8		0.0574	0.8150	0.0137	0.0333	NS	0.6437	0.0548
28	3	-0.0951	0.0302	0.9504	0.0009	0.0583	0.0220	0.9315	0.0018
40		0.0280	0.0263	0.4761	0.0397	-0.0194	NS	0.4047	0.0655
	5.5	-0.0082	NS	0.0077	0.8519	0.0207	NS	0.0361	0.6834
29	8	-0.1453	NS	0.2488	0.3924	-0.0485	NS	0.0117	0.8625
	3	-0.0714	0.0499	0.6211	0.0116	0.0327	NS	0.3811	0.0765
	5.5	-0.1108	0.1061	0.5213	0.0431	0.0582	NS	0.4480	0.0695

Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production			
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value
	8	-0.3939	0.2019	0.8342	0.0040	0.2096	0.0723	0.9174	0.0007
30	3	-0.0011	NS	0.0659	0.5784	-0.0002	NS	0.0263	0.7281
	5.5	-0.0065	0.0034	0.8201	0.0050	-3.69E-05	NS	0.0007	0.9535
	8	0.0003	NS	0.0042	0.8905	-0.0009	NS	0.1262	0.4342
31	3	-0.0006	NS	0.3505	0.1614	-0.0002	NS	0.0402	0.6665
	5.5	0.0051	0.0040	0.6833	0.0219	-0.0016	0.0013	0.6810	0.0223
	8	-0.0019	0.0016	0.6442	0.0298	-0.0014	NS	0.4949	0.0778
32	3	-0.0050	0.0004	1.0000	0.0037	0.0019	0.0001	1.0000	0.0037
	5.5	0.0250	0.0092	0.8817	0.0005	-0.01 <i>7</i> 5	0.0138	0.6156	0.0211
	8	-0.0809	NS	0.3787	0.3846	0.0742	NS	0.1311	0.6379
33	3	0.0153	0.0105	0.6757	0.0123	-0.0097	0.0056	0.7514	0.0053
	5.5	0.0170	0.0096	0.7563	0.0050	-0.0108	NS	0.2695	0.1874
	8	0.0218	NS	0.0812	0.4939	-0.0087	NS	0.0542	0.5789
34	3	-0.0927	0.0242	0.9659	0.0004	0.0442	0.0183	0.9189	0.0025
	5.5	-0.1004	0.0241	0.9710	0.0003	0.0475	0.0161	0.9440	0.0012
	8	-0.1295	0.0388	0.9555	0.0008	0.0710	0.0222	0.9521	0.0009

Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate		İ		Production			
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)		r^2	p Value
1	3	0.0253	0.0080	0.9696	0.0023	-0.0011	NS	0.0104	0.8702
	5.5	0.0240	0.0180	0.8620	0.0229	0.0030	NS	0.0300	0.8948
	8	0.0120	NS	0.7220	0.0682	0.0020	NS	0.0070	0.4046
2	3	0.0200	NS	0.2430	0.3988	-0.0010	NS	0.2380	0.6181
	5.5	0.0020	NS	0.3570	0.2872	0.0020	NS	0.0930	0.0402
Ţ.	8	-0.0230	NS	0.5960	0.1261	0.0230	0.0021	0.0810	0.0101
3	3	-0.0260	0.0050	0.9880	0.0050	0.0130	0.0060	0.9460	0.0054
	5.5	-0.0230	0.0200	0.8300	0.0316	0.0120	0.0140	0.7060	0.0749
	8	-0.0180	0.0040	0.9870	0.0006	0.0090	NS	0.6360	0.1060
4	3	-0.0534	0.0063	0.9960	0.0001	0.0166	NS	0.7107	0.0729
	5.5	-0.0760	0.0090	0.9960	0.0001	0.0185	0.0090	0.9232	0.0093
1	8	-0.1020	0.0170	0.9920	0.0003	0.0340	0.0046	0.9950	0.0002
5	3	-0.0379	NS	0.1527	0.4437	0.0357	NS	0.3253	0.2372
	5.5	-0.0477	NS	0.1285	0.4853	0.0480	NS	0.4532	0.1428
!	8	-0.0544	NS	0.1698	0.4168	0.0613	NS	0.6167	0.0642
6	3	-0.0343	0.0016	0.9990	0.0001	0.0112	0.0042	0.9583	0.0037
İ	5.5	-0.0514	0.0223	0.9472	0.0052	0.0252	0.0200	0.8452	0.0272
	8	-0.0585	0.0320	0.9190	0.0100	0.0225	0.0052	0.9708	0.0021
7	3	-0.0114	0.0111	0.7766	0.0482	0.0054	0.0052	0.7855	0.0452
	5.5	-0.0082	0.0048	0.9641	0.0181	0.0112	0.0032	0.9908	0.0046
	8	-0.0145	0.0083	0.9127	0.0113	0.0111	0.0033	0.9749	0.0017
8	3	0.0028	NS	0.0860	0.6317	0.0010	NS	0.0010	0.8737
	5.5	-0.0056	NS	0.5196	0.1695	0.0072	NS	0.6769	0.0872
İ	8	-0.0153	0.0144	0.7928	0.0428	0.0103	0.0025	0.9834	0.0009
9	3	-0.0017	0.0080	0.9310	0.0078	0.0090	0.0050	0.9070	0.0124
	5.5	-0.0170	0.0070	0.9800	0.0100	0.0040	0.0005	0.9980	0.0012
	8	-0.0190	0.0090	0.9780	0.0109	0.0060	0.0020	0.9840	0.0082
10	3	0.0080	NS	0.4280	0.2314	0.0080	0.0050	0.8940	0.0152
	5.5	-0.0010	NS	0.0680	0.6719	0.0100	NS	0.5420	0.1563
	8	-0.0380	0.0360	0.7860	0.0452	0.0350	0.0170	0.9370	0.0068
11	3	-0.0130	0.0050	0.9160	0.0027	-0.0003	NS	0.0050	0.8994
	5.5	-0.0780	NS	0.5720	0.0817	0.0440	NS	0.5710	0.0821
	8	-0.0224	0.0142	0.8940	0.0151	0.1100	0.0280	0.9820	0.0010
12	3	-0.0120	0.0020	0.9910	0.0004	0.0040	0.0030	0.6960	0.0790
111	5.5	-0.0160	0.0100	0.8870	0.0166	0.0050	NS	0.6090	0.1193
i	8	-0.0220	0.0100	0.9450	0.0055	0.0120	0.0070	0.8960	0.0148
13	3	-0.0290	0.0060	0.9900	0.0004	0.0060	NS	0.6790	0.0860
!	5.5	-0.0440	0.0070	0.9910	0.0004	0.0120	0.0050	0.9490	0.0049
	8	-0.0570	0.0060	0.9970	0.0001	0.0140	0.0050	0.9660	0.0027
14	3	-0.0110	0.0080	0.8670	0.0216	0.0400	NS	0.3120	0.3279
i	5.5	-0.0220	0.0170	0.8380	0.0292	0.0130	0.0110	0.8220	0.0337
	8	-0.0260	0.0150	0.9630	0.0186	0.0170	0.0130	0.9370	0.0319
15	3	-0.0020	NS	0.2230	0.4220	0.0010	NS	0.0260	0.7973
	5.5	-0.0040	NS	0.5420	0.1561	0.0020	NS	0.1950	0.4572
i	8	-0.0100	NS	0.7710	0.0501	0.0030	NS	0.7290	0.0656
16	3	-0.0140	NS	0.6990	0.0778	1.9130	NS	0.6920	0.0805

Respiration		Mean O2				Mean CO2	i i		
Monitoring	Depth	Uptake Rate				Production			
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value
	5.5	-0.0090	0.0070	0.8370	0.0293	0.0060	0.0010	0.9790	0.0013
	8	-0.0150	0.0080	0.9190	0.0101	0.0050	0.0020	0.9220	0.0095
17	3	-0.0290	NS	0.6820	0.0849	0.0200	NS	0.6130	0.1172
	5.5	-0.0230	0.0170	0.8630	0.0224	0.0130	0.0090	0.8760	0.0192
	8	-0.0350	0.0250	0.8620	0.0229	0.0180	0.0100	0.9250	0.0090
18	3	-0.0279	0.0051	0.9900	0.0004	0.0060	NS	0.3296	0.3115
	5.5	-0.0466	0.0063	0.9946	0.0002	0.0146	0.0089	0.9011	0.0136
i	8	-0.0707	0.0177	0.9819	0.0010	0.0255	0.0043	0.9916	0.0003
19	3	-0.0603	0.0095	0.9927	0.0003	0.0174	0.0073	0.9583	0.0037
i	5.5	-0.0761	0.0269	0.9643	0.0029	0.0279	0.0199	0.8690	0.0210
	8	-0.0104	NS	0.0108	0.1833	0.0205	NS	0.0040	0.4196
20	3	-0.0150	NS	0.0117	0.1604	0.0016	0.0013	0.8252	0.0328
	5.5	-0.0045	NS	0.2480	0.3933	Variance of a	zero		
	8	Variance of ze	ro		-	Variance of			
21	3	0.0025	NS	0.3697	0.2766	0.0021	NS	0.5377	0.1586
	5.5	-0.0030	NS	0.4523	0.2135	-0.0048	NS	0.4167	0.2395
	8	-0.0156	0.0132	0.8262	0.0325	0.0015	NS	0.7167	0.0705
22	3	-0.0029	NS	0.7180	0.0699	0.0021	NS	0.2044	0.4447
İ	5.5	-0.0097	0.0017	0.9916	0.0003	0.0036	NS	0.6640	0.0929
	8	-0.0078	NS	0.3136	0.3263	0.0015	0.0014	0.8251	0.0328
23	3	-0.0149	0.0065	0.9460	0.0054	0.0030	NS	0.3102	0.3294
	5.5	-0.0098	NS	0.5674	0.1415	0.0016	0.0013	0.8252	0.0328
	8	-0.0144	NS	0.7114	0.0726	0.0014	NS	0.7114	0.0726
24	3	-0.0066	NS	0.2813	0.3578	0.0050	0.0049	0.7761	0.0484
<u>-</u>	5.5	-0.0109	NS	0.4148	0.2409	-0.0023	NS	0.0744	0.6570
	8	-0.0306	0.0278	0.8033	0.0395	0.0148	NS	0.7683	0.0511
25	3	-0.0015	NS	0.1184	0.5708	0.0026	NS	0.3932	0.2575
	5.5	-0.0056	NS	0.3453	0.2975	0.0006	NS	0.0758	0.6539
	8	-0.0147	NS	0.7162	0.0706	0.0016	0.0013	0.8295	0.0316
26	3	-0.0031	0.0026	0.8286	0.0318	0.0008	NS	0.3087	0.3309
	5.5	-0.0047	0.0039	0.8286	0.0318	0.0005	NS	0.1271	0.5560
1	8	-0.0146	NS	0.7190	0.0695	0.0009	NS	0.1013	0.6017
27	3	-0.0009	NS	0.0072	0.8924	-0.0044	NS	0.3446	0.2980
	5.5	-0.0622	0.0383	0.8988	0.0141	0.0177	0.0176	0.7740	0.0491
	8	-0.0691	0.0390	0.9140	0.0110	0.0236	0.0146	0.8982	0.0142
28	3	0.0086	NS	0.0965	0.6110	-0.0166	NS	0.6665	0.0918
	5.5	-0.0204	0.0182	0.8098	0.0375	0.0029	NS	0.1322	0.5475
i	8	-0.0718	0.0142	0.9890	0.0005	0.0208	0.0190	0.8026	0.0397
29	3	-0.0592	0.0170	0.9590	0.0006	0.0062	NS	0.3301	0.2330
	5.5	-0.1844	0.0918	0.8861	0.0051	0.0610	0.4450	0.7842	0.0189
· · ·	8	-0.2218	0.0818	0.9341	0.0017	0.1224	0.0794	0.8207	0.0129
30		Variance of ze				-0.0005	NS	0.0301	0.7800
	5.5	-0.0006	NS	0.0265	0.7936	4.70E-03	NS	0.5890	0.1298
		Variance of ze		3.0200		-0.0011	NS	0.1346	0.5436
31	3	-0.0201	NS	0.1282	0.5540	0.0106	NS	0.1622	0.5015
	5.5	-0.0302	NS NS	0.1282	0.5540	0.0151	NS	0.1282	0.5540

Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production	_		
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value
	8	-0.0352	NS	0.1282	0.5540	0.0157	NS	0.1597	0.5051
32	3	No data				No data			
	5.5	0.0333	0.0098	0.9382	0.0003	-0.0110	NS	0.1507	0.3895
	8	-1.3807	NS	0.6169	0.2146	0.7274	NS	0.5663	0.2474
33	3	0.0042	NS	0.0912	0.5608	0.0092	NS	0.4888	0.1221
	5.5	0.0022	NS	0.0133	0.8276	0.0151	0.0130	0.7214	0.0323
	8	-0.0095	NS	0.0203	0.7875	0.0153	NS	0.0639	0.6289
34	3	-0.0439	0.0243	0.9167	0.0105	0.0187	0.0119	0.8921	0.0156
	5.5	-0.0778	0.0591	0.9603	0.0034	0.0261	0.0163	0.8967	0.0145
	8	-0.0867	0.0289	0.9681	0.0024	0.0287	0.0178	0.8974	0.0144
NOTE	 NS = N	OT SIGNIFIC	ANT						

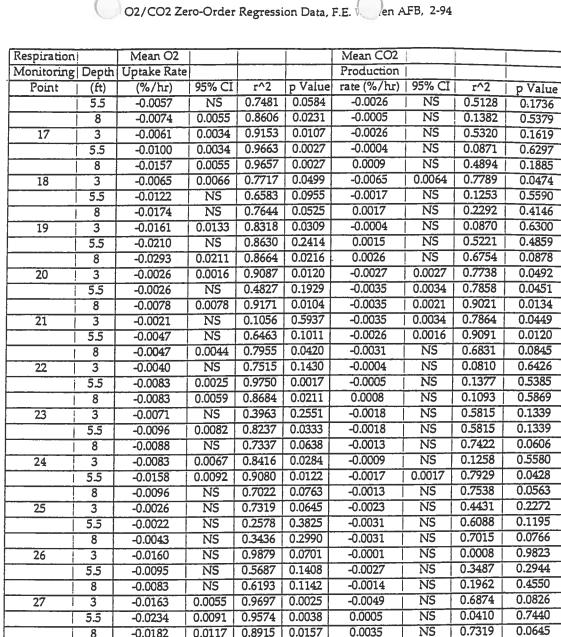
Respiration		Mean O2				Mean CO2		1	
Monitoring		Uptake Rate				Production	<u>'</u>		
Point	(ft)	(1/hr)	95% CI	r^2	p Value	rate (1/hr)	<u> </u>	r^2	p Value
1	3	0.0020	0.0010	0.950	0.0049	0.0000	NS	0.0001	0.9898
	5.5	0.0020	0.0010	0.862	0.0229	-0.0030	NS	0.0380	0.7545
	8	0.0030	NS	0.729	0.0654	0.0002	NS	0.0080	0.8843
2	3	0.0010	NS	0.261	0.3787	-0.0030	NS	0.2090	0.4385
	5.5	0.0001	NS	0.357	0.2872	0.0005	NS	0.1020	0.6005
	8	0.0020	NS	0.601	0.1233	0.0040	NS	0.7680	0.0511
3	3	-0.0020	0.0005	0.987	0.0006	0.0050	0.0030	0.9180	0.0101
	5.5	-0.0014	0.0010	0.844	0.0276	0.0035	0.0043	0.6953	0.0792
	8	-0.0110	0.0002	0.980	0.0012	0.0023	NS	0.6074	0.1202
4	3	-0.0031	0.0006	0.990	0.0004	0.0069	NS	0.6445	0.1019
i	5.5	-0.0049	0.0009	0.989	0.0005	0.0058	0.0033	0.9128	0.0112
	8	-0.0072	0.0007	0.998	0.0001	0.0090	0.0027	0.9786	0.0013
5	3	-0.0023	NS	0.135	0.4730	0.0100	NS	0.2805	0.2798
	5.5	-0.0035	NS	0.078	0.5930	0.0070	NS	0.3781	0.1939
	8	-0.0066	NS	0.097	0.5473	0.0060	NS	0.5165	0.1076
6	3	-0.0019	0.0002	0.996	0.0001	0.0049	0.0020	0.9483	0.0051
	5.5	-0.0029	0.0011	0.959	0.0036	0.0106	0.0110	0.7370	0.0625
	8	-0.0036	0.0020	0.925	0.0090	0.0066	0.0027	0.9525	0.0045
7	3	-0.0007	NS	0.747	0.0589	0.0034	NS	0.7414	0.0609
	5.5	-0.0006	0.0003	0.973	0.0138	0.0067	0.0030	0.9784	0.0109
	8	-0.0008	0.0004	0.927	0.0085	0.0068	0.0020	0.9770	0.0015
8	3	0.0002	NS	0.137	0.5394	-0.0003	NS	0.0050	0.9110
i	5.5	-0.0003	NS	0.696	0.0792	0.0021	NS	0.9770	0.0872
i	8	-0.0009	0.0008	0.830	0.0315	0.0031	0.0007	0.9834	0.0009
9	3	-0.0010	0.0000	0.958	0.0037	0.0080	0.0050	0.8800	0.0182
	5.5	-0.0010	0.0000	0.998	0.0012	0.0050	0.0010	0.9960	0.0022
	8	-0.0010	0.0000	0.994	0.0029	0.0060	0.0030	0.9720	0.0139
10	3	0.0010	NS	0.471	0.2007	0.0010	0.0006	0.8830	0.0177
	5.5	-0.0001	NS	0.069	0.6685	0.0010	NS	0.5010	0.0181
	8	-0.0030	0.0030	0.800	0.0405	0.0050	0.0020	0.9160	0.0106
11	3	-0.0010	0.0005	0.931	0.0018	0.0000	NS	0.0003	0.9727
	5.5	-0.0060	0.0050	0.642	0.0554	0.0110	0.0050	0.4380	0.1519
T i	8	-0.0590	0.0029	0.935	0.0072	0.0130	0.0050	0.9520	0.0045
12	3	-0.0010	0.0005	0.986	0.0007	0.0020	NS	0.6630	0.0935
	5.5	-0.0010	0.0004	0.866	0.0217	0.0020	NS	0.6010	0.1238
	8	-0.0010	0.0005	0.954	0.0042	0.0050	0.0030	0.8740	0.0197
13	3	-0.0020	0.0005	0.992	0.0003	0.0020	NS	0.6520	0.0987
	5.5	-0.0030	0.0010	0.986	0.0007	0.0040	0.0020	0.9430	0.0059
	8	-0.0030	0.0005	0.998	0.0001	0.0080	0.0040	0.9370	0.0068
14	3	-0.0010	0.0005	0.877	0.0190	0.0010	NS	0.3040	0.3356
	5.5	-0.0010	0.0005	0.831	0.0311	0.0040	0.0040	0.8070	0.0383
1	8	-0.0020	0.0005	0.971	0.0148	0.0060	0.0060	0.9110	0.0453
15	3	-0.0001	NS	0.223	0.4220	0.0004	NS	0.0190	0.8241
	5.5	-0.0002	NS	0.542	0.1561	0.0020	NS	0.1970	0.4539
	8	-0.0004	NS	0.752	0.0569	0.0040	NS	0.7490	0.0581

Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production			
Point	(ft)	(1/hr)	95% CI	r^2	p Value	rate (1/hr)		r^2	p Value
1	5.5	-0.0010	0.0002	0.860	0.0232	0.0050	0.0010	0.9810	0.0011
	8	-0.0010	0.0003	0.925	0.0089	0.0050	0.0020	0.9250	0.0890
17	3	-0.0010	NS	0.655	0.0972	0.0130	NS	0.5040	0.1788
	5.5	-0.0010	0.0010	0.856	0.0242	0.0070	0.0050	0.8820	0.0179
	8	-0.0020	0.0010	0.848	0.0264	0.0150	0.0100	0.8860	0.0169
18	3	-0.0018	0.0003	0.993	0.0003	0.0012	0.0006	0.3427	0.2997
	5.5	-0.0031	0.0003	0.997	0.0001	0.0029	0.0020	0.8688	0.0210
	8	-0.0043	0.0010	0.984	0.0009	0.0065	0.0017	0.9803	0.0012
19	3	-0.0036	0.0004	0.997	0.0001	0.0060	0.0031	0.9264	0.0087
	5.5	-0.0045	0.0016	0.964	0.0029	0.0114	0.0112	0.7799	0.0471
j	8	-0.0038	NS	0.006	0.3306	0.0043	NS	0.0099	0.2042
20	3	-0.0002	NS	0.007	. 0.2729	0.0022	0.0018	0.8252	0.0328
	5.5	-0.0002	NS	0.235	0.4078	Variance of			
	8	-0.0001	NS	0.228	0.4158	0.0000	NS	0.1260	0.5577
21	3	0.0001	NS	0.320	0.3205	0.0023	NS	0.5377	0.1586
	5.5	-0.0001	NS	0.311	0.3283	-0.0099	NS	0.4853	0.1912
	8	-0.0002	0.0001	0.826	0.0325	0.0022	NS	0.7167	0.0705
22	3	-0.0001	NS	0.718	0.0699	0.0013	NS	0.2147	0.4318
i	5.5	-0.0006	0.0002	0.981	0.0011	0.0039	NS	0.6779	0.0867
	-8	-0.0004	NS	0.638	0.1049	0.0022	0.0002	0.8251	0.0328
23 j	3	-0.0009	0.0003	0.964	0.0029	0.0030	NS	0.3524	0.2913
	5.5	-0.0004	NS	0.461	0.2077	0.0022	0.0018	0.8252	0.0328
	8	-0.0009	0.0005	0.923	0.0093	0.0022	NS	0.7114	0.0726
24	3	-0.0004	NS	0.297	0.3426	0.0021	0.0018	0.8258	0.0326
	5.5	-0.0006	NS	0.452	0.2136	-0.0014	NS	0.1059	0.5932
	8	-0.0015	0.0006	0.958	0.0037	0.0092	NS	0.7310	0.0648
25	3	-3.9287E-5	NS	0.051	0.7141	0.0019	NS	0.4365	0.2248
	5.5	-0.0002	NS	0.345	0.2975	0.0007	NS	0.0641	0.6811
i	8	-0.0003	NS	0.716	0.0706	0.0024	0.0019	0.8295	0.0316
26 i	3	-0.0002	0.0001	0.829	0.0318	0.0011	NS	0.3087	0.3309
	5.5	-0.0002	0.0001	0.829	0.0318	0.0007	NS	0.1271	0.5560
<u>i</u>	8	-0.0005	0.0005	0.787	0.0448	0.0013	NS	0.0996	0.6050
27	3	-0.0001	NS	0.026	0.7948	-0.0011	NS	0.3873	0.2623
	5.5	-0.0041	0.0023	0.917	0.0104	0.0045	NS	0.7491	0.0580
	8	-0.0045	0.0017	0.958	0.0037	0.0088	0.0058	0.8855	0.0170
28	3	0.0008	NS	0.071	0.6645	-0.0021	NS	0.6430	0.1027
	5.5	-0.0029	0.0026	0.814	0.0363	0.0003	NS	0.1322	0.5475
	8	-0.0100	0.0028	0.978	0.0014	0.0027	0.0024	0.8019	0.0399
29	3	-0.0038	0.0010	0.965	0.0005	0.0019	NS	0.3341	0.2295
	5.5	-0.0190	0.0056	0.957	0.0007	0.0147	0.0171	0.5840	0.0768
i	8	-0.0190	0.0058	0.979	0.0002	0.0176	0.0156		0.0355
30		Variance of ze		0.777	0.0002	-0.0005	NS		0.7800
30 :			NS	0.089	0.6254	5.20E-03	NS	0.6140	
		-0.0001		0.064	0.6822	-0.0009	NS	0.1467	
- 1	8	0.0001	NS		0.6622	0.0073	NS	0.1893	
31	3	-0.0011	NS	0.128					0.5540
1	5.5	-0.0018	NS	0.128	0.5540	0.0078	NS	0.1282	0.55

O2/CO2 First-Order Regression Data, F.E. W---en AFB, 11-93

Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production			
Point	(ft)	(1/hr)	95% CI	r^2	p Value	rate (1/hr)	95% CI	r^2	p Value
	8	-0.0023	NS	0.128	0.5540	0.0068	NS	0.1889	0.4646
32	3	No data				No data			
	5.5	0.0060	0.0022	0.905	0.0010	-0.0008	NS	0.1226	0.4413
	8	-0.8501	NS	0.912	0.1923	0.0816	NS	0.5466	0.2607
33	3	0.0003	NS	0.079	0.5901	0.0017	NS	0.4415	0.1500
	5.5	0.0002	NS	0.020	0.7889	0.0021	0.0018	0.7112	0.0349
	8	-0.0072	NS	0.248	0.6680	0.0015	NS	0.0775	0.5931
34	3	-0.0024	0.0014	0.914	0.0111	0.0086	0.0066	0.8496	0.0260
	5.5	-0.0048	0.0014	0.975	0.0017	0.0090	0.0066	0.8615	0.0229
	8	-0.0063	0.0019	0.974	0.0018	0.0090	0.0070	0.8477	
NOTE	NOTE: NS = NOT SIGNIFICANT				28				

Respiration		Mean O2				Mean CO2			
Monitoring						Production			
Point	(ft)	(%/hr)	95% CI		p Value	rate (%/hr)	95% CI	r^2	p Valu
1	3	0.0088	NS	0.5752	0.0805	0.0007	NS	0.0376	0.7126
	5.5	0.0005	NS	0.0035	0.9111	0.0072	NS	0.6554	0.0509
	8	0.0138	NS	0.5969	0.0717	0.0156	0.0061	0.9279	0.0020
2	3	0.0010	NS	0.0383	0.7101	-0.0090	0.0040	0.9074	0.0033
	5.5	-0.0047	0.0041	0.7149	0.0339	0.0196	0.0107	0.8664	0.0070
	8	-0.1187	0.0030	0.9291	0.0019	0.6043	0.0021	0.6793	0.0436
3	3	-0.0157	0.0028	0.9626	0.0005	0.0040	NS	0.6021	0.0697
	5.5	-0.01 <i>7</i> 0	0.0048	0.9608	0.0006	0.0043	0.0034	0.7599	0.0236
	8	-0.0110	0.0016	0.9896	0.0001	0.0030	NS	0.5439	0.0943
4	3	-0.0292	0.0066	0.9739	0.0003	0.0064	0.0055	0.7229	0.0320
	5.5	-0.0418	0.0052	0.9921	0.0001	0.0106	0.0032	0.9569	0.0007
	8	-0.0550	0.0153	0.9447	0.0002	0.0216	0.0083	0.9014	0.0011
5	3	-0.0142	0.0112	0.7578	0.0241	-0.0008	NS	0.0913	0.5605
	5.5	-0.0278	0.0138	0.8875	0.0049	0.0023	0.0021	0.7018	0.0374
	8	-0.0453	0.0185	0.9206	0.0024	0.0150	0.0110	0.7821	0.0193
6	3	-0.0253	0.0050	0.9887	0.0005	0.0030	0.0014	0.9376	0.0067
	5.5	-0.0286	0.0057	0.9887	0.0005	0.0064	0.0042	0.8880	0.0165
	8	-0.0311	0.0063	0.9878	0.0006	0.0081	0.0059	0.8658	0.0218
7	3	-0.0099	0.0048	0.9346	0.0072	-0.0009	NS	0.1475	0.5233
	5.5	-0.0098	0.0055	0.9154	0.0107	0.0004	NS	0.0381	0.7532
	8								
8	3	-0.0047	0.0024	0.9277	0.0084	-0.0012	NS	0.4175	0.2388
	5.5	-0.0089	0.0045	0.9309	0.0079	0.0004	NS	0.0123	0.8593
	8	-0.0088	NS	0.7428	0.0603	0.0012	NS	0.1645	0.4982
9	3	-0.0072	0.0035	0.9346	0.0072	-0.0005	NS	0.1405	0.5342
	5.5	-0.0115	0.0017	0.9939	0.0002	0.0000	NS	0.0000	0.9944
	8	-0.0114	0.0055	0.9369	0.0069	-0.0004	NS	0.0223	0.8105
10	3	-0.0184	0.0040	0.9864	0.0007	0.0004	NS	0.0287	0.7855
	5.5	-0.0262	0.0074	0.9771	0.0015	0.0068	NS	0.3074	0.3321
	8								
11	3	-0.0253	0.0326	0.3248	0.1091	0.0028	0.0025	0.4942	0.0346
	5.5	-0.0670	0.0140	0.9583	0.0001	0.0085	0.0029	0.9022	0.0003
	8	-0.1243	0.0457	0.8555	0.0004	0.0337	0.0039	0.9839	0.0001
12	3	-0.0116	0.0016	0.9947	0.0002	-0.0004	NS	0.1193	0.5691
	5.5	-0.0124	0.0057	0.9430	0.0059	-0.0004	NS	0.0794	0.6460
	8	-0.0167	NS	0.5635	0.1438	0.0000	NS	0.0000	0.9920
13	3	-0.0151	0.0069	0.9414	0.0061	0.0009	NS	0.0769	0.6514
	5.5	-0.0168	0.0071	0.9503	0.0048	0.0017	NS	0.2301	0.4136
	8	-0.0207	0.0082	0.9557	0.0040	-0.0009	NS	0.0810	0.6426
14	3	-0.0065	0.0048	0.8636	0.0223	-0.0035	NS	0.6593	0.0951
	5.5	-0.0032	NS	0.2346	0.4084	-0.0009	NS	0.1399	0.5351
i	8		0.0110	0.8966	0.0146	0.0034	NS	0.6745	0.0882
15	3	-0.0043	NS	0.5323	0.2704	-0.0031	NS	0.8196	0.0947
	5.5	-0.0052	NS	0.6499	0.0994	-0.0031	NS	0.7263	0.6770
	8						i		
16	3	-0.0078	0.0032	0.9527	0.0044	-0.0022	NS	0.6352	0.1064



0.8915

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-0.0017

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-0.0039

-0.0035

-0.0035

0.0096

-0.0032

NS

NS

NS

0.0017

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NS

NS

NS

NS

NS

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0.0453

0.7191

0.7901

0.8671

0.7298

0.7298

0.4983

0.1663

0.5673

0.1072

0.6128

0.1520

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0.0006

Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production			i — — —
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value
	8	0.0023	NS	0.2042	0.4449	-0.0040	0.0041	0.8292	0.0317
32	3								
	5.5	0.0195	0.0179	0.4425	0.0358	0.0076	NS	0.1147	0.3385
	8								
33	3	-0.0330	0.0166	0.7981	0.0028	0.0068	NS	0.4397	0.0731
	5.5	-0.0072	NS	0.3745	0.1966	0.0011	NS	0.0061	0.8826
	8								
34	3	-0.0556	0.0426	0.8517	0.0254	0.0119	NS	0.5038	0.1793
	5.5	-0.0422	0.0062	0.9791	0.0001	0.0050	NS	0.7440	0.0558
	. 8	-0.0639	0.0130	0.9601	0.0001	0.0150	0.0043	0.9259	0.0001
NS = NOT S	 GNIFIC	CANT							

Respiration		Mean O2				Mean CO2			
Monitoring						Production			
Point	(ft)	(1/hr)	95% C		p Value	rate (1/hr)	95% C	r^2	p Valu
1	3	0.0006	NS	0.5801	0.0785	0.0001	NS	0.0386	0.7093
	5.5	0.0000	NS	0.0044	0.9008	0.0011	NS	0.6561	0.0507
	8	-0.0010	NS	0.6115	0.0661	0.0023	0.0009	0.9247	0.0022
2	3	0.0001	NS	0.0396	0.7053	-0.0040	0.0018	0.9093	0.0032
	5.5	-0.0002	0.0003	0.7124	0.0346	0.0055	0.0029	0.8757	0.0061
	8	-0.0131	0.0002	0.9307	0.0018	0.0253	0.0006	0.6776	0.0441
3	3	-0.0008	0.0002	0.9659	0.0004	0.0028	NS	0.6005	0.0703
	5.5	-0.0009	0.0003	0.9642	0.0005	0.0025	0.0020	0.7510	0.0255
	8	-0.0006	0.0001	0.9906	0.0001	0.0014	NS	0.5486	0.0922
4	3	-0.0016	0.0004	0.9756	0.0002	0.0032	0.0029	0.7099	0.0352
	5.5	-0.0025	0.0003	0.9951	0.0001	0.0038	0.0013	0.9452	0.0011
	8	-0.0036	0.0008	0.9633	0.0001	0.0063	0.0031	0.8453	0.0034
5	3	-0.0009	0.0007	0.7543	0.0248	-0.0002	NS	0.0887	0.5664
	5.5	-0.0018	0.0010	0.8784	0.0058	0.0006	0.0006	0.6933	0.0397
	8	-0.0036	0.0017	0.9016	0.0038	0.0028	0.0020	0.8059	0.0152
6	3	-0.0014	0.0003	0.9857	0.0007	0.0016	0.0008	0.9313	0.0078
	5.5	-0.0016	0.0004	0.9870	0.0006	0.0033	0.0023	0.8745	0.0196
	8	-0.0017	0.0003	0.9918	0.0003	0.0035	0.0024	0.8763	0.0192
7	3	-0.0005	0.0003	0.9329	0.0075	-0.0009	NS	0.1486	0.5216
	5.5	-0.0005	0.0003	0.9181	0.0102	0.0005	NS	0.0539	0.7071
	8								
8	3	-0.0002	0.0002	0.9274	0.0085	-0.0009	NS	0.4071	0.2467
	5.5	-0.0005	0.0003	0.9326	0.0076	0.0003	NS	0.0160	0.8392
	8	-0.0004	NS	0.7467	0.0589	0.0009	NS	0.1856	0.4689
9	3	-0.0004	0.0002	0.9358	0.0070	-0.0006	NS	0.1405	0.5342
	5.5	-0.0006	0.0001	0.9948	0.0002	0.0000	NS	0.0000	0.9944
	8	-0.0006	0.0003	0.9393	0.0065	-0.0008	NS	0.0128	0.8562
10	3	-0.0010	0.0002	0.9945	0.0005	0.0002	NS	0.0334	0.7685
	5.5	-0.0014	0.0005	0.9713	0.0021	0.0032	NS	0.3539	0.2899
	8								
11	3	-0.0015	NS	0.3517	0.0923	0.0011	0.0010	0.4890	0.0360
	5.5	-0.0045	0.0008	0.9750	0.0001	0.0027	0.0009	0.9051	0.0003
	8	-0.0190	0.0056	0.9011	0.0001	0.0070	0.0012	0.9647	0.0001
12	3	-0.0006	0.0001	0.9945	0.0002	-0.0006	NS	0.1193	0.5691
	5.5	-0.0006	0.0003	0.9426	0.0059	-0.0005	NS	0.0794	0.6460
	8	-0.0009	NS	0.5543	0.1489	-0.0006	NS	0.0059	0.9026
13	3		0.0004	0.9455	0.0055	0.0007	NS	0.0583	0.6956
	5.5		0.0004	0.9541	0.0042	0.0015	NS	0.2164	0.4299
	8		0.0004	0.9616	0.0032	-0.0015	NS	0.0646	0.6799
14	3		0.0003	0.8621	0.0227	-0.0024	NS	0.6684	0.0909
	5.5	-0.0002		0.2356	0.4072	-0.0007	NS	0.1386	0.5372
	8			0.9053	0.0131	0.0035	NS	0.6577	0.0958
15	3	-0.0002		0.5323	0.2704	-0.0047	NS	0.7827	0.1153
	5.5	-0.0003	NS	0.6484	0.1001	-0.0048	NS	0.7010	0.0769
	8							· · · · · · · ·	
16	3	-0.0004	0.0002	0.9514	0.0046	-0.0031	NS	0.6164	0.1156

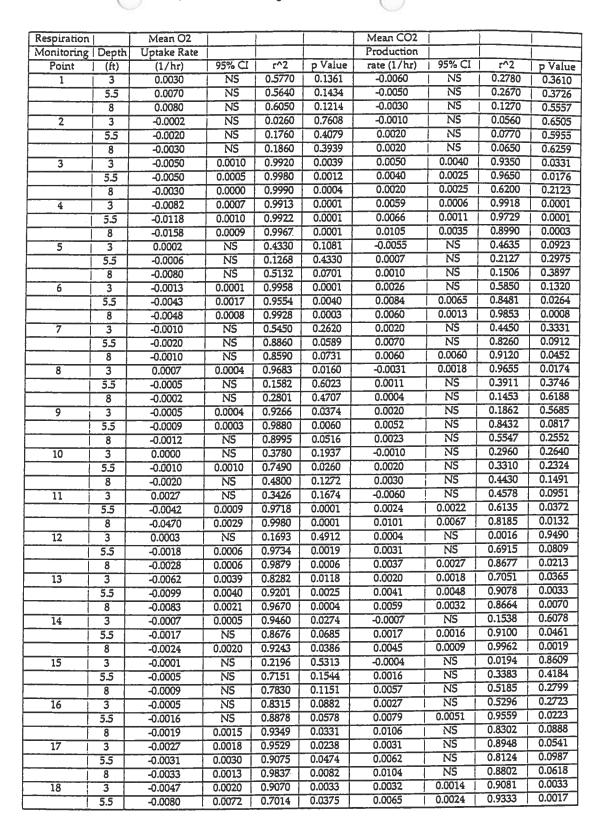
Respiration		Mean O2				Mean CO2		1	
		Uptake Rate				Production			1
Point	(ft)	(1/hr)	95% C	r^2	p Value	rate (1/hr)	95% CI	r^2	p Value
	5.5	-0.0003	NS	0.7454	0.0594	-0.0045	NS	0.4444	0.2192
	8	-0.0004	0.0003	0.8623	0.0227	-0.0010	NS	0.1382	0.5379
17	3	-0.0003	0.0002	0.9168	0.0105	-0.0028	NS	0.5582	0.1467
	5.5	-0.0005	0.0002	0.9682	0.0024	-0.0006	NS	0.0871	0.6297
	8	-0.0008	0.0003	0.9675	0.0025	0.0019	NS	0.4894	0.1885
18	3	-0.0003	NS	0.7686	0.0510	-0.0032	NS	0.7688	0.0509
	5.5	-0.0006	NS	0.6547	0.0972	-0.0009	NS	0.1396	0.5355
	8	-0.0009	NS	0.7687	0.0510	0.0012	NS	0.2459	0.3955
19	3	-0.0008	0.0007	0.8338	0.0303	-0.0005	NS	0.2949	0.6300
	5.5	-0.0011	NS	0.8584	0.2456	0.0017	NS	0.5542	0.4654
	8	-0.0015	0.0011	0.8687	0.0210	0.0040	NS	0.6663	0.0919
20	3	-0.0001	0.0001	0.9087	0.0120	-0.0045	0.0045	0.7738	0.0492
	5.5	-0.0001	NS	0.4827	0.1929	-0.0077	0.0076	0.7803	0.0470
	8	-0.0004	0.0002	0.9162	0.0106	-0.0103	0.0061	0.9074	0.0123
21 j	3	-0.0001	NS	0.1040	0.5965	-0.0073	NS	0.7642	0.0526
	5.5	-0.0002	NS	0.6474	0.1006	-0.0067	0.0040	0.9507	0.0131
	8	-0.0002	0.0002	0.7951	0.0421	-0.0156	NS	0.7245	0.0674
22	3	-0.0002	NS	0.5632	0.1439	-0.0006	NS	0.0810	0.6426
	5.5	-0.0004	0.0001	0.9757	0.0016	-0.0008	NS	0.1377	0.5385
	8	-0.0004	0.0003	0.8673	0.0214	0.0023	NS	0.0759	0.6537
23	3	-0.0003	NS	0.3929	0.2578	-0.0031	NS	0.7827	0.1176
	5.5	-0.0005	0.0004	0.8228	0.0335	-0.0048	NS	0.6271	0.1103
	8	-0.0004	NS	0.7307	0.0650	-0.0037	NS	0.7422	0.0606
24	3	-0.0004	0.0004	0.8392	0.0288	-0.0010	NS	0.1258	0.5580
	5.5	-0.0008	0.0005	0.9064	0.0125	-0.0019	0.0019	0.7920	0.0431
	8	-0.0005	NS	0.8347	0.0787	-0.0018	NS	0.7538	0.0563
25	3	-0.0001	NS	0.7308	0.0649	-0.0023	NS	0.3981	0.2537
	5.5	-0.0001	NS	0.2598	0.3803	-0.0054	NS	0.5698	0.1402
	8	-0.0002	NS	0.3451	0.2976	-0.0087	NS	0.6357	0.1062
26	3	-0.0008	NS	0.9868	0.0733	-0.0001	NS	0.0008	0.9823
	5.5	-0.0005	NS	0.5666	0.1420	-0.0066	NS	0.2671	0.3726
	8	-0.0004	NS	0.6177	0.1150	-0.0042	NS	0.1822	0.4735
27	3	-0.0008	0.0003	0.9655	0.0028	-0.0035	NS	0.6461	0.1012
	5.5	-0.0012	0.0005	0.9581	0.0037	0.0004	NS	0.0433	0.7370
	8	-0.0009	0.0006	0.8956	0.0148	0.0052	NS	0.7220	0.0684
28	3	-0.0025	0.0014	0.7692	0.0042	0.0038	NS	0.3634	0.1137
	5.5	-0.0015	0.0007	0.8330	0.0016	-0.0005	NS	0.0501	0.5942
	8					İ	i		
29	3	-0.0009	NS	0.6713	0.1807	0.0015	NS	0.7191	0.1520
	5.5	-0.0018	0.0012	0.6890	0.0108	0.0016	0.0008	0.7882	0.0032
	8		0.0019	0.7569	0.0050	0.0159	0.0094	0.7424	0.0060
30	3	0.0000	NS	0.1336	0.5452	-0.0047	NS	0.7298	0.0653
i	5.5	0.0000	NS	0.0115	0.8634	-0.0047	NS	0.7298	0.0653
1	8	0.0001		0.1498	0.5199	-0.0042	NS	0.6722	0.2138
31	3	-0.0010		0.1348	0.5432	0.0066	NS	0.1952	0.4564
ì	5.5	0.0000		0.0172	0.8334	-0.0057		0.5167	0.1712

Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production			
Point	(ft)	(1/hr)	95% CI	r^2	p Value	rate (1/hr)	95% CI	r^2	p Value
	8	0.0001	NS	0.2042	0.4449	-0.0057	0.0057	0.7777	0.0478
32	3								
	5.5	0.0029	0.0028	0.4232	0.0417	0.0009	NS	0.1183	0.3304
	8								
33	3	-0.0020	0.0010	0.8123	0.0022	0.0022	NS	0.4189	0.0828
_	5.5	-0.0005	NS	0.3788	0.1933	0.0001	NS	0.0014	0.9439
	8								
34	3	-0.0032	0.0026	0.8345	0.0301	0.0079	NS	0.4707	0.2009
	5.5	-0.0023	0.0003	0.9856	0.0001	0.0041	0.0026	0.7240	0.0074
	8	-0.0038	0.0010	0.9466	0.0001	0.0094	0.0025	0.9354	0.0001
NS = NOT S	IGNIFI	CANT							

Respiration		Mean O2				Mean CO2		1	
		Uptake Rate				Production			
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value
1	3	0.0390	NS	0.5540	0.1489	-0.0300	NS	0.3950	0.2561
	5.5	0.0610	NS	0.4700	0.2011	-0.0460	NS	0.3590	0.2858
	8	0.0560	NS	0.5200	0.1690	-0.0280	NS	0.1530	0.5147
2	3	-0.0030	NS	0.0220	0.7798	-0.0040	NS	0.0320	0.7351
	5.5	-0.0300	NS	0.2310	0.3349	0.0140	NS	0.0530	0.6614
	8	-0.0380	NS	0.2640	0.2975	0.0150	NS	0.0480	0.6776
3	3	-0.0690	0.0310	0.9790	0.0107	0.0190	0.0110	0.9630	0.0184
	5.5	-0.0670	0.0210	0.9900	0.0050	0.0170	0.0080	0.9730	0.0134
	8	-0.0460	0.0085	0.9990	0.0003	0.0090	NS	0.6480	0.1953
4	3	-0.0896	0.0078	0.9925	0.0001	0.0329	0.0026	0.9936	0.0001
	5.5	-0.1147	0.0115	0.9900	0.0001	0.0343	0.0057	0.9733	0.0001
	8	-0.1387	0.0059	0.9764	0.0001	0.0427	0.0068	0.9749	0.0001
5	3	0.0047	NS	0.5129	0.0702	-0.0065	NS	0.4569	0.0955
	5.5	-0.0046	NS	0.1398	0.4087	0.0065	NS	0.2127	0.2975
	8	-0.0294	NS	0.4689	0.0896	0.0111	NS	0.1414	0.4057
6	3	-0.0225	0.0026	0.9958	0.0001	0.0077	NS	0.5909	0.1288
	5.5	-0.0617	0.0260	0.9501	0.0048	0.0302	0.0190	0.8943	0.0151
	8	-0.0656	0.0169	0.9807	0.0011	0.0248	0.0085	0.9663	0.0027
7	3	-0.0130	NS	0.5470	0.2603	0.0040	NS	0.4620	0.3205
	5.5	-0.0270	NS	0.8580	0.0737	0.0150	0.0140	0.9110	0.0455
İ	8	-0.0260	NS	0.8260	0.0909	0.0080	0.0050	0.9630	0.0186
8	3	0.0114	0.0072	0.9586	0.0209	-0.0189	0.0133	0.9489	0.0259
ĺ	5.5	-0.0071	NS	0.1809	0.5747	0.0065	NS	0.3664	0.3947
İ	8	-0.0036	NS	0.3641	0.3966	0.0024	NS	0.1125	0.6647
9	3	-0.0091	NS	0.8295	0.0892	0.0046	NS	0.1939	0.5596
	5.5	-0.0156	0.0073	0.9768	0.0117	0.0114	NS	0.8933	0.0548
	8	-0.0218	0.0216	0.9043	0.0491	0.0042	NS	0.5939	0.2294
10	3	0.0050	NS	0.3830	0.1902	-0.0080	NS	0.3010	0.2595
	5.5	-0.0180	0.0140	0.7460	0.0266	0.0090	NS	0.3520	0.2146
	8	-0.0340	NS	0.5300	0.1011	0.0160	NS	0.4290	0.1580
11	3	0.0382	NS	0.3500	0.1618	-0.0312	NS	0.4336	0.1078
	5.5	-0.0430	0.0105	0.9568	0.0001	0.0189	0.0168	0.6251	0.0343
	8	-0.2159	0.0876	0.9215	0.0024	0.0714	0.0433	0.8397	0.0102
12	3	0.0047	NS	0.1244	0.5605	-0.0006	NS	0.0024	0.9381
	5.5	-0.0290	0.0102	0.9647	0.0028	0.0099	NS	0.7380	0.0621
	8	-0.0447	0.0097	0.9863	0.0007	0.0117	0.0071	0.9022	0.0134
13	3	-0.0536	0.0410	0.7676	0.0221	0.0205	0.0182	0.7088	0.0355
	5.5	-0.0810	0.0518	0.8248	0.0123	0.0354	0.0120	0.9437	0.0012
	8	-0.1012	0.0451	0.9065	0.0034	0.0153	0.0081	0.8728	0.0063
14	3	-0.0125	0.0066	0.9705	0.0149	-0.0029	NS	0.1414	0.6240
	5.5	-0.0283	NS	0.8439	0.0813	0.0076	0.0073	0.9100	0.0461
	8	-0.0399	0.0388	0.9074	0.0474	0.0141	0.0036	0.9928	0.0036
15	3	-0.0012	NS	0.2196	0.5313	-0.0008	NS	0.0272	0.8352

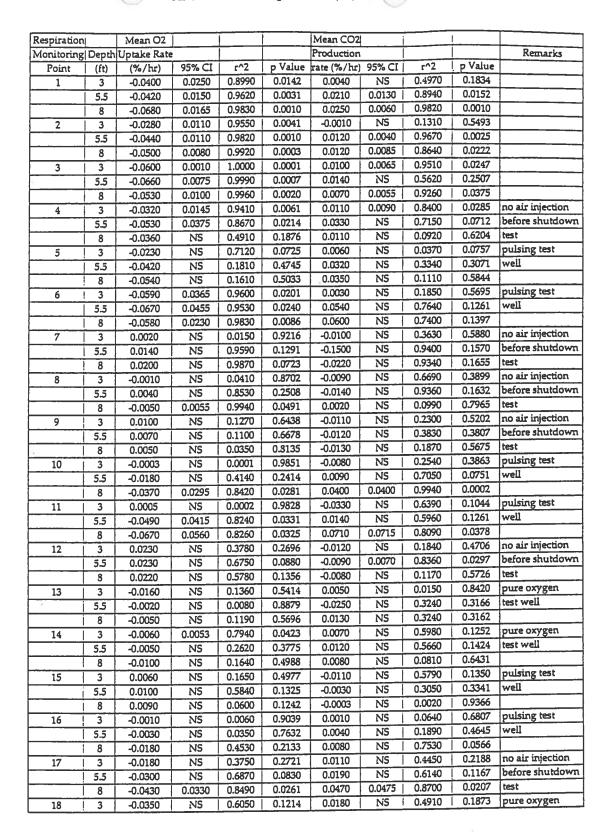
Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production			
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value
	5.5	-0.0099	NS	0.6845	0.1726	0.0043	NS	0.3706	0.3913
	8	-0.0157	NS	0.7794	0.1172	0.0096	NS	0.6316	0.2053
16	3	-0.0099	NS	0.7417	0.1388	0.0064	NS	0.5926	0.2302
	5. <i>5</i>	-0.0282	NS	0.8798	0.0620	0.0157	0.0042	0.9925	0.0037
	8	-0.0361	0.0338	0.9133	0.0443	0.0117	0.0102	0.9246	0.0385
17	3	-0.0391	0.0325	0.9310	0.0351	0.0165	0.0148	0.9189	0.0414
	5.5	-0.0499	NS	0.8760	0.0640	0.0241	NS	0.8910	0.0561
	8	-0.0541	0.0300	0.9677	0.0163	0.0250	0.0142	0.9663	0.0170
18	3	-0.0467	0.0229	0.8890	0.0048	0.0274	0.0111	0.9213	0.0024
	5.5	-0.0784	0.0071	0.6659	0.0477	0.0509	0.0135	0.9647	0.0005
	8	-0.1042	0.0452	0.9109	0.0031	0.0485	0.0091	0.9802	0.0001
19	3	-0.0651	0.0098	0.9878	0.0006	0.0180	0.0062	0.9659	0.0027
	5.5	-0.0772	0.0189	0.9825	0.0010	0.0318	0.0053	0.9919	0.0003
	8	-0.0814	0.0135	0.9920	0.0003	0.0254	0.0055	0.9867	0.0007
20	3	-0.0114	0.0059	0.9725	0.0138	-0.0008	NS	0.0193	0.8611
	5.5	-0.0019	NS	0.0744	0.7272	0.0052	NS	0.6822	0.1741
	8	-0.0049	NS	0.4250	0.3481	0.0045	NS	0.4052	0.3634
21	3	-0.0056	NS	0.5283	0.1642	0.0033	NS	0.4641	0.2054
	5.5	-0.0253	0.0134	0.9234	0.0092	0.0083	NS	0.6652	0.0924
	8	-0.0533	0.0310	0.9092	0.0119	0.0207	0.0071	0.9665	0.0026
22	3	0.0008	NS	0.0522	0.6634	-0.0114	NS	0.5211	0.1053
i	5.5	-0.0035	NS	0.6281	0.0601	-0.0023	NS	0.0846	0.5760
	8	-0.0048	0.0030	0.8285	0.0117	0.0018	NS	0.0160	0.811
23	3	-0.0039	NS	0.0749	0.7263	0.0002	NS	0.0006	0.9762
ĺ	5.5	-0.0736	0.0366	0.9317	0.0077	0.0080	0.0052	0.8902	0.0160
İ	8	-0.0571	0.0426	0.9358	0.0070	0.0195	NS	0.7676	0.0514
24	3	-0.0510	0.0222	0.9470	0.0053	0.0133	0.0124	0.7942	0.0424
İ	5.5	-0.0849	0.0438	0.9268	0.0086	0.0254	0.0119	0.9386	0.0066
i	8	-0.1030	0.0302	0.9751	0.0017	0.0351	0.0136	0.9784	0.0038
25	3	0.0044	NS	0.0733	0.7293	0.0021	NS	0.0395	0.8013
	5.5	0.0060	NS	0.1102	0.6681	0.0021	NS	0.2345	0.5157
<u> </u>	8	0.0023	NS	0.0943	0.6930	0.0032	NS	0.5122	0.2843
26	3	0.0143	NS	0.1035	0.6782	0.0248	NS	0.3365	0.4199
	5.5	-0.0054	NS	0.2206	0.5303	0.0298	NS	0.7021	0.1621
	8	0.0093	NS	0.0238	0.8456	0.0007	NS	0.0011	0.9667
27	3	0.0550	0.0269	0.8069	0.0024	-0.0298	0.0076	0.9384	0.0001
	5.5	0.0590	0.0418	0.6655	0.0135	-0.0287	0.0286	0.5017	0.0493
	8	0.0237	0.0205	0.1082	0.4264	0.0004	NS	0.0000	0.9871
28*	3	0.1830	0.1600	0.5120	0.0301	-0.0460	NS	0.1860	0.2465
	5.5	-0.0430	NS	0.3290	0.1062	0.0840	0.0680	0.5470	0.0227
	8	-0.1690	0.0530	0.8890	0.0001	0.0940	0.0440	0.7820	0.0015
29*	3	-0.1090	NS NS	0.4640	0.0628	0.0430	NS	0.3550	0.1194
40/	5.5	-0.2110	0.0760	0.8860	0.0025	0.0750	0.0330	0.8390	0.0014
	J.J	-0.2110	0.0700	0.0000	0.0000	0.0730	0.0000	5.5575	0.0027

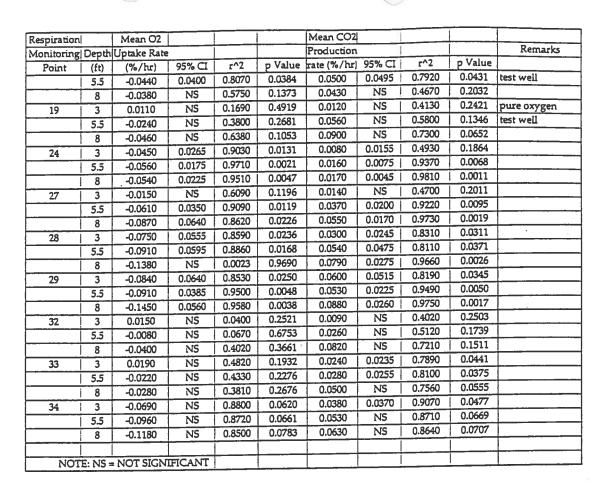
Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate				Production			
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value
	8	-0.3280	0.0430	0.9830	0.0001	0.1480	0.0510	0.8960	0.0004
30	3	0.0098	NS	0.2546	0.4954	-0.0016	NS	0.2693	0.4811
	5.5	0.0082	NS	0.4091	0.3604	-0.0013	NS	0.3795	0.3840
	8	0.0070	NS	0.2938	0.4580	-0.0026	NS	0.3357	0.4206
31	3	0.0070	NS	0.2570	0.2460	-0.0010	NS	0.0260	0.7273
	5.5	0.0030	NS	0.0580	0.6044	0.0010	NS	0.0610	0.5932
	8	0.0040	NS	0.0850	0.5266	0.0040	NS	0.2000	0.3147
32	3	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	5.5	0.0280	0.0180	0.8240	0.0001	-0.0160	0.0300	0.3430	0.0353
	8	No Data	No Data	No Data	No Data	no data	no data	no data	no data
33*	3	-0.0560	NS	0.2130	0.2499	0.1010	NS	0.2570	0.1995
	5.5	0.0460	NS	0.0860	0.4813	0.0720	NS	0.2760	0.1812
	8	-6.1060	NS	0.4460	0.5346	1.2210	NS	0.4460	0.5346
34*	3	-0.0720	0.0230	0.8860	0.0002	0.0410	0.0170	0.8120	0.0009
	5.5	-0.1360	0.0260	0.9560	0.0001	0.0650	0.0370	0.7120	0.0042
	8	-0.1670	0.0300	0.9620	0.0001	0.0440	0.0300	0.6260	0.0111
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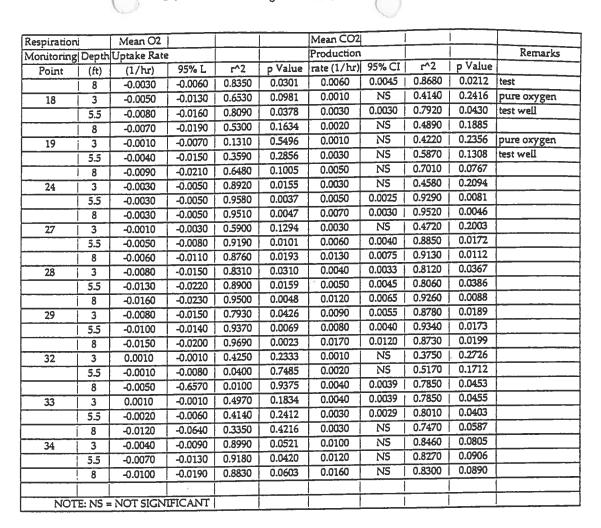
Respiration		Mean O2				Mean CO2			
Monitoring	Depth	Uptake Rate	<u> </u>			Production			
Point	(ft)	(1/hr)	95% CI	Γ^2	p Value	rate (1/hr)	95% CI	r^2	p Value
	8	-0.0092	0.0030	0.9494	0.0010	0.0110	0.0043	0.9254	0.0021
19	3	-0.0046	0.0006	0.9945	0.0002	0.0043	0.0010	0.9842	0.0090
	5.5	-0.0054	0.0009	0.9920	0.0003	0.0103	0.0042	0.9530	0.0044
	8	-0.0052	0.0008	0.9944	0.0002	0.0146	0.0030	0.9883	0.0005
20	3	-0.0001	0.0004	0.9438	0.0285	-0.0006	NS	0.0127	0.8874
	5.5	0.0000	NS	0.0940	0.6934	0.0019	NS	0.6298	0.2064
	8	-0.0003	NS	0.4023	0.3057	0.0018	NS	0.4056	0.3631
21	3	-0.0003	NS	0.4196	0.2373	0.0020	NS	0.4261	0.2324
	5.5	-0.0014	0.0008	0.9104	0.0117	0.0049	NS	0.6089	0.1194
	8	-0.0030	0.0020	0.8914	0.0157	0.0384	0.0173	0.9431	0.0059
22	3	0.0168	NS	0.0828	0.5802	-0.0269	NS	0.4704	0.1326
	5.5	-0.0524	0.0516	0.6652	0.0479	-0.0043	NS	0.0316	0.7360
	8	-0.0742	0.0440	0.8455	0.0095	0.0036	NS	0.0188	0.7954
23	3	-0.0002	NS	0.0592	0.7567	0.0004	NS	0.0069	0.9170
	5.5	-0.0046	0.0027	0.9083	0.0121	0.0066	0.0040	0.9023	0.0134
i	8	-0.0057	0.0032	0.9173	0.0103	0.0317	0.0098	0.9722	0.0020
24	3	-0.0036	0.0017	0.9361	0.0070	0.0026	0.0024	0.7936	0.0426
	5.5	-0.0059	0.0031	0.9238	0.0091	0.0071	0.0037	0.9274	0.0085
	8	-0.0069	0.0020	0.9765	0.0015	0.0181	0.0085	0.9374	0.0068
25	3	0.0002	NS	0.0733	0.7293	0.0009	NS	0.0307	0.8249
	5.5	0.0003	NS	0.0896	0.7006	0.0015	NS	0.2345	0.5157
	8	0.0001	NS	0.0974	0.6879	0.0025	NS	0.4579	0.3233
26	3	0.0009	NS	0.1195	0.6544	0.0179	NS	0.2945	0.4573
	5.5	0.0003	NS	0.2206	0.5303	0.1014	NS	0.5589	0.2524
	8	0.0007	NS	0.0457	0.7862	-0.0306	NS	0.3069	0.6262
27	3	0.0045	0.0023	0.7974	0.0028	-0.0039	0.0009	0.9492	0.0303
	5.5	0.0052	0.0048	0.6488	0.0158	-0.0036	0.0003	0.5701	0.0303
	8	0.0032	NS	0.0875	0.4767	0.0001	NS	0.0088	0.9836
28*	3	0.0250	0.0230	0.4810	0.0383	-0.0040	NS	0.1720	0.2670
20	5.5	-0.0060	NS	0.3860	0.0740	0.0070	0.0060	0.5360	0.0249
	8	-0.0140	0.0040	0.8930	0.0001	0.0150	0.0080	0.7330	0.0032
29*	3	-0.0050	0.0050	0.5040	0.0484	0.0070	0.0000	0.3390	0.1297
- 47	5.5	-0.0030	0.0050	0.9250	0.0001	0.0130	0.0060	0.8130	0.0022
	8	-0.0170	0.0030	0.9960	0.0001	0.0560	0.0300	0.7880	0.0033
30	3	0.0005	NS	0.2190	0.5321	-0.0067	NS	0.2207	0.5302
30	5.5	0.0005	NS	0.4047	0.3638	-0.0014	NS	0.3202	0.4342
	8	0.0003	NS	0.2938	0.4580	-0.0011	NS	0.2867	0.4645
31	3	0.0004	NS	0.1920	0.4360	0.0010	NS	0.0040	0.8996
21	5.5	0.0003	NS NS	0.1920	0.5725	0.0010	NS	0.0950	0.5023
	8	0.0002	NS NS	0.0730	0.5569	0.0110	NS	0.2430	0.2615
32	3					no data	no data	no data	no data
34		no data 0.0050	no data	no data 0.7990	no data 0.0001	-0.0010	0.0018	0.3910	0.0222
	5.5		0.0030			-0.0010	NS	0.7660	0.1250
22*	8	no data	no data	no data	no data	0.0270	NS NS	0.2400	0.2181
33*	3	-0.0030	NS	0.1930	0.2759		NS	0.2760	0.1815
	5.5	0.0060	NS	0.1030	0.4373	0.0060	no data	no data	no data
348	8	no data	no data	no data	no data	no data	0.0040	0.7760	0.0017
34*	3	-0.0040	0.0015	0.8850	0.0002	0.0090		0.6170	0.0017
!	5.5	-0.0090	0.0020	0.9580	0.0001	0.0180	0.0130	0.5810	0.0121
	8	-0.0100	0.0020	0.9710	0.0001	0.0210	0.0150	0.5010	0.0109
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Respiration		Mean O2	<u> </u>			Mean CO2				
Monitoring	Depth	Uptake Rate				Production				Remarks
Point	(ft)	(1/hr)	95% L	r^2	p Value	rate (1/hr)	95% CI	r^2	p Value	
1	3	-0.0020	-0.0040	0.8890	0.0163	0.0010	NS	0.5100	0.1751	
	5.5	-0.0030	-0.0040	0.0958	0.0037	0.0060	0.0050	0.8380	0.0292	
	8	-0.0050	-0.0060	0.9870	0.0006	0.0060	0.0025	0.9550	0.0041	
2	3	-0.0020	-0.0020	0.9430	0.0058	-0.0010	NS	0.1170	0.5726	
	5.5	-0.0020	-0.0030	0.9870	0.0007	0.0060	0.0025	0.9600	0.0034	
	8	-0.0030	-0.0030	0.9940	0.0002	0.0060	0.0045	0.8490	0.0263	
3	3	-0.0040	-0.0040	0.9990	0.0007	0.0030	0.0025	0.9510	0.0250	
	5.5	-0.0040	-0.0050	0.9960	0.0020	0.0040	NS	0.6260	0.2088	
	8	-0.0030	-0.0040	0.9930	0.0033	0.0020	0.0014	0.9260	0.0375	
4	3	-0.0030	-0.0040	0.9360	0.0069	0.0010	0.0014	0.8160	0.0354	no air injection
•	5.5	-0.0060	-0.0110	0.8790	0.0186	0.0030	NS	0.6980	0.0780	before shutdown
	8	-0.0050	-0.0150	0.4490	0.2160	0.0010	NS	0.0930	0.6168	test
5	3	-0.0010	-0.0030	0.7410	0.0610	0.0030	NS	0.0770	0.6514	pulsing test
	5.5	-0.0040	-0.0170	0.2020	0.4471	0.0050	NS	0.2790	0.3600	well
	8	-0.0070	-0.0330	0.1750	0.4835	0.0040	NS	0.1150	0.5764	
6	1 3	-0.0030	-0.0050	0.9740	0.0132	0.0010	NS	0.1860	0.5684	pulsing test
0	5.5	-0.0040	-0.0070	0.9830	0.0172	0.0220	NS	0.6240	0.2100	well
	8	-0.0040	-0.0050	0.9870	0.0061	0.0230	NS	0.6120	0.2180	
7	3	-0.0020	-0.0110	0.0300	0.8890	-0.0020	NS	0.3630	0.5880	no air injection
			-0.0110	0.9710	0.1083	-0.0020	NS	0.9370	0.1622	before shutdow
	5.5	0.0010		0.9850	0.1083	-0.0030	NS	0.9620	0.1251	test
	8	0.0010	-0.0010		0.8702	-0.0010	NS	0.7210	0.3539	no air injection
8	3	-0.00003	-0.0020	0.0410		-0.0010	NS	0.9360	0.1632	before shutdow
	5.5	0.0004	-0.0020	0.8530	0.2508		NS	0.2380	0.6754	test
	8	-0.0010	-0.0010	0.9940	0.0491	0.0002		0.2150	0.5369	no air injection
9	3	0.0010	-0.0040	0.1180	0.6559	-0.0020	NS		0.3807	before shutdow
	5.5	0.0010	-0.0040	0.1380	0.6283	-0.0020	NS	0.3830		
	8	0.0005	-0.0060	0.0440	0.7906	-0.0010	NS	0.1710	0.5863	test
10	3	0.0000	-0.0030	0.0001	0.9903	-0.0010	NS	0.2370	0.4051	pulsing test
	5.5	-0.0010	-0.0040	0.4460	0.2181	0.0010	NS	0.6990	0.0776	well
	8	-0.0030	-0.0050	0.8310	0.0312	0.0060	0.0015	0.9850	0.0008	
11	3	0.0001	-0.0040	0.0040	0.9241	-0.0130	NS	0.6980	0.0781	pulsing test
	5.5	-0.0050	-0.0090	0.8230	0.0334	0.0010	NS	0.6140	0.1169	well
	8	-0.0430	-0.0830	0.7970	0.0416	0.0040	0.0034	0.7840	0.0459	
12	3	0.0020	-0.0030	0.4300	0.2298	-0.0010	NS	0.1500	0.5191	no air injection
	5.5	0.0030	-0.0010	0.6830	0.0844	-0.0010	0.0005	0.8150	0.0359	before shutdow
	8	0.0030	-0.0010	0.6120	0.1178	-0.0010	NS	0.1380	0.5377	test
13	3	-0.0030	-0.0130	0.1940	0.4576	0.0003	NS	0.0160	0.8375	pure oxygen
	5.5	-0.0010	-0.0090	0.0110	0.8652	-0.0010	NS	0.3460	0.2971	test well
	8	-0.0030	-0.0150	0.1390	0.5372	0.0005	NS	0.3380	0.3036	- 5
14	3	-0.0003	-0.0010	0.6900	0.0813	0.0010	NS	0.5720	0.1391	bare oxygen
	5.5	-0.0010	-0.0020	0.3180	0.3218	0.0010	NS	0.5690	0.1407	test well
	8	-0.0010	-0.0060	0.1910	0.4616	0.0005	NS	0.0620	0.6875	
15	3	0.0004	-0.0010	0.1720	0.4881	-0.0030	NS	0.5460	0.1539	pulsing test
	5.5	0.0010	-0.0004	0.5370	0.1590	-0.0010	NS	0.3110	0.3288	well
	8	0.0005	-0.0004	0.5350	0.1604	0.0001	NS	0.0020	0.9426	
16	3	-0.0001	-0.0020	0.0070	0.8971	0.0003	NS	0.0640	0.6807	pulsing test
70	5.5	-0.0020	-0.0020	0.0490	0.7206	0.0010	NS	0.1670	0.4946	well
		-0.0020	-0.0020	0.4980	0.1833	0.0010	0.0020	0.7790	0.0473	
17	8		-0.0030	0.4210	0.1833	0.0020	NS	0.4020	0.2508	no air injection
17	3	-0.0010				0.0010	NS	0.5860	0.1314	before shutdow
	5.5	-0.0020	-0.0050	0.6940	0.0796	0.0020	140	0.5000	0.2022	



Respiration		Mean 02				Mean CO2				
Monitoring	Depth	Uptake Rate				Production				Remarks
Point	(ft)	(%/hr)	95% CI	r^2	p Value	rate (%/hr)	95% CI	r^2	p Value	
13	3	0.0091	0.0285	0.2000	0.4250	-0.0059	0.0093	0.4000	0.1568	pure oxygen
	5.5	-0.0049	0.1500	0.2000	0.3697	-0.0077	0.0122	0.4000	0.1518	test well
	8	-0.1000	0.0000	0.9000	0.0041	-0.0073	0.0245	0.1000	0.4496	
14	3	0.0095	0.0123	0.5000	0.0934	-0.0023	0.0040	0.4000	0.1856	pure oxygen
	5.5	0.0120	0.0178	0.5000	0.1280	-0.0036	0.0056	0.5000	0.1423	test well
	8	-0.0058	0.0160	0.2000	0.3657	0.0013	0.0109	0.0270	0.7547	
18	3	0.0100	0.0045	0.9000	0.0025	-0.0014	0.0075	0.1000	0.6294	pure oxygen
	5.5	0.0080	0.0079	0.6000	0.0748	-0.0010	0.0109	0.0170	0.8043	test well
	8	0.0100	0.0069	0.7000	0.0416	0.0022	0.0020	0.0350	0.7217	
19	3	-0.0220	0.0207	0.7000	0.0404	-0.0110	0.0108	0.7000	0.0450	pure oxygen
	5.5	-0.0450	0.0400	0.8000	0.0093	-0.0130	0.0142	0.6000	0.0656	test well
	8	-0.1000	0.0355	0.9000	0.0060	0.0067	0.0315	0.1000	0.5848	
NOT	E: NS =	NOT SIGNIF	ICANT							

Respiration	1	Mean O2				Mean CO2				
Monitoring Depth Uptake Rate			Production					Remarks		
Point	(ft)	(1/hr)	95% CI	r^2	p Vaiue	rate (1/hr)	95% CI	r^2	p Value	
13	3	0.0000	0.0017	0.0005	0.9683	-0.0006	0.0015	0.2000	0.3481	pure oxygen
	5.5	-0.0016	0.0047	0.2000	0.3922	-0.0004	0.0012	0.2000	0.4042	test well
	8	-0.0026	0.0012	0.9000	0.0032	-0.0009	0.0024	0.2000	0.3745	
14	3	0.0006	0.0010	0.4000	0.1847	-0.0005	0.0011	0.2000	0.4387	pure oxygen
	5.5	0.0006	0.0010	0.4000	0.1847					test well
	8	-0.0006	0.0010	0.4000	0.1658	0.0005	0.0016	0.2000	0.4433	
18	3	0.0011	0.0008	0.8000	0.0169	-0.0006	0.0010	0.4000	0.1632	pure oxygen
	5.5	0.0006	0.0010	0.4000	0.1839	-0.0006	0.0015	0.2000	0.3486	test well
	8	0.0012	0.0012	0.7000	0.0443	0.0004	0.0024	0.1000	0.6528	
19	3	-0.0011	0.0019	0.4000	0.1 <i>7</i> 52	-0.0012	0.0020	0.4000	0.1637	pure oxygen
	5.5	-0.0020	0.0018	0.7000	0.0417	-0.0011	0.0008	0.8000	0.0178	test well
	8	-0.0027	0.0015	0.9000	0.0081	0.0004	0.0024	0.1000	0.6576	
NOT	E: NS =	NOT SIGN	IFICANT							

Respiration		Mean				Mean CO2			
Monitoring						Production			
Point	(ft)	Rate, %/hr	r^2	p-value	95% CI	Rate, %/hr	Γ^2	p-value	95% CI
3S	3	0.0011	0.0158	0.8403	0.0166	0.0039	0.3532	0.2906	0.0096
3M	5.5	-0.0079	0.6339	0.107	0.011	0.0043	0.3611	0.2839	0.0105
3D	8	-0.013	0.3587	0.2858	0.0321	0.0061	0.2035	0.4457	0.022
4S	3	-0.0027	0.0342	0.7659	0.0268	0.0085	0.6211	0.1133	0.0122
4M	5.5	0.0102	0.4337	0.2268	0.0213	0.0001	0.0002	0.9813	0.0114
4D	8	0.0029	0.049	0.7205	0.0232	0.0064	0.4666	0.2037	0.0126
5S	3	-0.0228	0.7435	0.0601	0.0246	0.0135	0.6299	0.1089	0.019
5M	5.5	-0.0024	0.0541	0.7065	0.0181	0.0031	0.151	0.518	0.0138
5D	8	-0.0047	0.0325	0.7719	0.0474	0.0094	0.0905	0.6228	0.0545
6S	3	-0.0204	0.5452	0.1542	0.0343	0.0163	0.6901	0.0814	0.02
6M	5.5	-0.0043	0.2642	0.3756	0.013	0.0009	0.0114	0.8641	0.0152
6D	8	-0.0024	0.0709	0.6651	0.0158	0.0037	0.0799	0.6451	0.023
10S	3	0.003	0.2559	0.3846	0.0094	0.0005	0.0032	0.9285	0.0163
10M	5.5	0.0029	0.1571	5089	0.0124	-0.0016	0.072	0.6625	0.0106
10D	8	-0.0004	0.0022	0.9401	0.016	-0.0016	0.072	0.6625	0.0106
11S	3	0.0017	0.0161	0.8387	0.0249	-0.0025	0.198	0.4528	0.0093
11M	5.5	-0.0008	0.0054	0.9065	0.0203	0.0026	0.068	0.6719	0.0176
11D	8	-0.0119	0.3839	0.265	0.0277	0.0107	0.2906	0.3485	0.0308
13S	3	-0.0178	0.576	0.1368	0.0281	0.0066	0.3356	0.306	0.0169
13M	5.5	-0.0172	0.9502	0.0048	0.0072	0.0048	0.4898	0.1882	0.009
13D	8	-0.0194	0.8784	0.0187	0.0133	0.0082	0.551	0.1508	0.0136
14S	3	-0.0135	0.6367	0.202	0.031	0.0169	0.9034	0.0495	0.0167
14M	5.5	-0.0052	0.4069	0.3621	0.0191	0.0091	0.9772	0.0115	0.0042
14D	8	0.0008	0.0909	0.6985	0.0079	0.0053	0.5729	0.2431	0.0138
15S	3	0.0017	0.0522	0.7177	0.0135	0.008	0.3192	0.321	0.0216
15M	5.5	-0.0024	0.3136	0.3262	0.0065	0.003	0.4334	0.227	0.0063
15D	8	-0.012	0.0521	0.7118	0.0094	0.0024	0.0989	0.6063	0.0135
16S	3	-0.0027	0.1143	0.5779	0.0137	0.0027	0.0975	0.609	0.0152
16M	5.5	-0.0003	0.0077	0.8887	0.0072	0.002	0.1935	0.4586	0.0076
16D	8	0.0032	0.4985	0.1827	0.0059	0.0022	0.1092	0.587	0.0114
18S	3	-0.0099	0.7126	0.0721	0.0116	0.0033		0.3525	0.0096
18M	5.5	-0.0099	0.7196	0.0693	0.0114	0.0082	0.7526	0.0567	0.0086
18D	8	-0.0125	0.8764	0.0192	0.0086	0.0108	0.7425	0.0604	0.0117
19S	3	-0.021	0.8911	0.0158	0.0136	0.0073	0.595	0.1266	0.0111
19M	5.5	-0.0253	0.9166	0.0105	0.014	0.0082	0.807	0.0383	0.0074
19D	8	-0.0293	0.9333	0.0075	0.0144	0.0099	0.72	0.0691	0.0113
27S	3	-0.001	0.0147	0.8462	0.0158	-0.0007		0.9203	0.0213
27M	5.5	0.0036	0.0817	0.6411	0.0224	-0.0055	0.212	0.4352	0.0194
27D	8	-0.0002	0.0003	0.9795	0.0181	-0.0071	0.206	0.4426	0.0256
28S	3	-0.0063	0.013	0.8554	0.101	0.0075	0.0485	0.675	0.046
28M	5.5	-0.0002	0.0001	0.9884	0.0298	-0.0083	0.2199	0.4256	0.0288
28D	8	0.0195	0.4244	0.2336	0.0417	-0.0303	0.7082	0.0739	0.0357

O2/C0

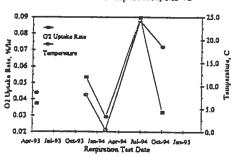
Respiration		Mean				Mean CO2		1	
Monitoring	Depth	O2 Uptake				Production			
Point	(ft)	Rate, %/hr	г^2	p-value	95% CI	Rate, %/hr	г^2	p-value	95% CI
298	3	0.0191	0.8981	0.0143	0.0118	-0.005	0.3713	0.2753	0.012
29M	5.5	0.0011	0.0046	0.9137	0.0292	-0.0077	0.4096	0.2448	0.0168
29D	8	0.0014	0.0037	0.9092	0.0313	-0.009	0.1038	0.5335	0.0369
32S	3	-0.3908	0.8205	0.0342	0.3358	0.0144	0.8572	0.024	0.0108
32M	5.5	-0.4242	0.8479	0.0265	0.3305	0.024	0.9238	0.0091	0.0127
32D	8	-0.4468	0.625	0.1114	0.636	0.0308	0.8857	0.017	0.0203
33S	3	0.0045	0.3437	0.2989	0.0114	-0.0055	0.5521	0.1502	0.0091
33M	5.5	0.0049	0.2469	0.3944	0.0157	-0.0045	0.2006	0.4494	0.0166
33D	8	-0.0019	0.052	0.7121	0.0147	-0.0141	0.5915	0.1285	0.0214
34S	3	-0.0013	0.0042	0.918	0.0356	-0.0018	0.0272	0.7909	0.0204
34M	5.5	0.0035	0.0132	0.8539	0.0561	-0.0011	0.0119	0.8616	0.0178
34D	8	0.0043	0.0821	0.6403	0.0265	-0.0116	0.4447	0.2189	0.0238

Respiration		Mean				Mean CO2			
Monitoring	Depth					Production			
Point	(ft)	Rate, 1/hr	r^2	p-value	95% CI	Rate, 1/hr	r^2	p-value	95% CI
3S	3	-9.44E-06	0.0002	0.9806	0.0011	0.0013	0.3268	0.314	0.0034
3M	5.5	-0.0005	0.592	0.1282	0.0008	0.0013	0.3611	0.2839	0.0031
3D	8	-0.001	0.3497	0.2936	0.0024	0.0017	0.2395	0.4028	0.0057
4S	3	-0.0003	0.0576	0.6975	0.002	0.0016	0.592	0.1265	0.0024
4M	5.5	0.0008	0.4171	0.2391	0.0018	0.0001	0.0039	0.9202	0.0016
4D	8	0.0003	0.049	0.7205	0.0023	0.0008	0.3122	0.3276	0.0023
5S	3	-0.0013	0.7082	0.0739	0.0015	0.004	0.5952	0.1265	0.006
5M	5.5	-0.0002	0.0541	0.7065	0.0018	0.0005	0.1946	0.4571	0.0018
5D	8	-0.0007	0.0377	0.7545	0.0061	0.0009	0.091	0.6218	0.0052
6S	3	-0.0012	0.5607	0.1453	0.002	0.0035	0.649	0.0998	0.0047
6M	5.5	-0.0003	0.3899	0.2601	0.0008	0.0002	0.0161	0.8387	0.0022
6D	8	-0.0001	0.0493	0.7196	0.0012	4.64E-05	0.0004	0.9756	0.0044
10S	3	0.0002	0.2181	0.4278	0.0006	0.0001	0.0051	0.9088	0.0037
10M	5.5	0.0002	0.1316	0.5485	0.0008	-0.0003	0.0887	0.6266	0.0019
10D	8	-0.0001	0.0165	0.8371	0.0012	-0.0008	0.3117	0.328	0.0023
118	3	0.0002	0.0341	0.7663	0.0017	-0.0004	0.171	0.4889	0.0015
11M	5.5	3.47E-06	1.24E-05	0.9955	0.0016	0.0003	0.0456	0.7301	0.0022
11D	8	-0.0016	0.362	0.2831	0.004	0.0009	0.201	0.4489	0.0031
13S	3	-0.001	0.5328	0.1615	0.0017	0.002	0.3177	0.3224	0.0053
13M	5.5	-0.0011	0.9682	0.0024	0.0003	0.0013	0.4667	0.2036	0.0026
13D	8	-0.0012	0.8736	0.0199	0.0008	0.003	0.5429	0.1555	0.0051
14S	3	-0.0007	0.6544	0.1911	0.0015	0.006	0.8948	0.0541	0.0063
14M	5.5	-0.0003	0.4069	0.3621	0.0013	0.0024	0.9817	0.0092	0.001
14D	8	0.0001	0.0909	0.6985	0.0008	0.0017	0.8221	0.0933	0.0025
15S	3	0.0001	0.1236	0.5618	0.0007	0.0026	0.2919	0.3472	0.0073
15M	5.5	-0.001	0.3136	0.3262	0.0003	0.0009	0.4334	0.227	0.0019
15D	8	-0.0001	0.068	0.6719	0.0005	0.001	0.1236	0.5618	0.0048
16S	3 :	-0.0002	0.2432	0.3986	0.0007	0.0008	0.0975	0.609	0.0046
16M	5.5	5.90E-06	0.0018	0.9465	0.0003	0.0005	0.1932	0.4589	0.002
16D	8	0.0002	0.4527	0.2133	0.0004	0.0012	0.3198	0.3204	0.0033
18S	3	-0.0006	0.6813	0.0852	0.0008	0.0008	0.3355		0.002
18M	5.5	-0.0007	0.7031	0.076	0.0008	0.0016	0.7526	0.0567	0.0017
18D	8	-0.0008	0.8538	0.0249	0.0006	0.0026	0.7657	0.052	0.0026
19S	3	-0.0012	0.9256	0.0088	0.0007	0.0022	0.5674	0.1416	0.0035
19M	5.5	-0.0016	0.9308	0.0079	0.0008	0.0024	0.8051	0.0389	0.0022
19D	8	-0.0019	0.9394	0.0064	0.0008	0.0026	0.7627	0.0531	0.0026
27S	3	-0.0001	0.0109	0.8672	0.001	-0.0001	0.0022	0.9399	0.0054
27M	5.5	0.0003	0.0866	0.6308	0.0017	-0.0009	0.2186	0.4272	0.003
27D	8	2.91E-05	0.0013	0.954	0.0015	-0.0013	0.3098	0.3299	0.0034
28S	3	-0.0003	0.0038	0.9212	0.0084	0.0016	0.089	0.5659	0.0072
28M	5.5	7.39E-06	7.52E-06	0.9959	0.0037	-0.0008	0.1953	0.4562	0.0031
28D	8	0.0059	0.3435	0.299	0.0149	-0.0021	0.7811	0.0467	0.0021

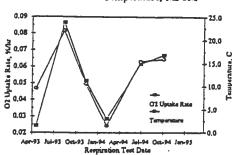
Respiration		Mean				Mean CO2			
Monitoring	Depth	O2 Uptake			90	Production			
Point	(ft)	Rate, 1/hr	r^2	p-value	95% CI	Rate, 1/hr	r^2	p-value	
29S	3	0.0015	0.8811	0.0181	0.001	-0.0009	0.4047	0.2485	0.0019
29M	5.5	0.0001	0.0042	0.9179	0.004	-0.0008	0.4096	0.2448	0.0017
29D	8	0.0004	0.0081	0.8651	0.0065	-0.0011	0.261	0.3004	0.0027
32S	3	-0.0104	0.8531	0.025	0.0079	0.0092	0.8292	0.0317	0.0077
32M	5.5	-0.016	0.8431	0.0277	0.0127	0.0071	0.9406	0.0063	0.0033
32D	8	-0.0208	0.7004	0.0771	0.025	0.0088	0.8629	0.0225	0.0064
33S	3	0.0003	0.3616	0.2834	0.0007	-0.0014	0.5114	0.1745	0.0024
33M	5.5	0.0003	0.3134	0.3264	0.0009	-0.0008	0.1677	0.4936	0.0032
33D	8	-0.0086	0.3619	0.3984	0.0347	-0.0013	0.4719	0.2001	0.0025
34S	3	-0.0001	0.003	0.9307	0.0023	-0.0003	0.0173	0.8332	0.0034
34M	5.5	0.0004	0.0238	0.8045	0.0043	-0.0001	0.0109	0.867	0.0025
34D	8	0.0004	0.0765	0.6525	0.0023	-0.0012	0.3115	0.3282	0.0034

APPENDIX 19 TEMPERATURE AND RESPIRATION RATE PLOTS

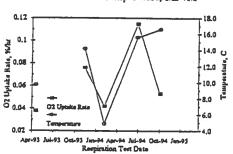
Zero Order O2 Uptake Rate and Subsurface Temperature, MP4S



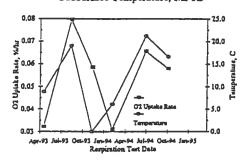
Zero Order O2 Uptake Rate and Subsurface Temperature, MP6M



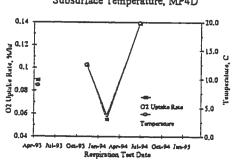
Zero Order O2 Uptake Rate and Subsurface Temperature, MP4M



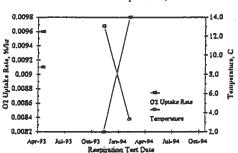
: Zero Order O2 Uptake Rate and Subsurface Temperature, MP6D



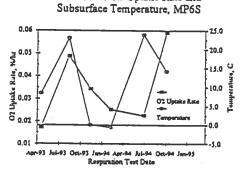
Zero Order O2 Uptake Rate and Subsurface Temperature, MP4D



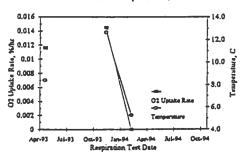
Zero Order O2 Uptake Rate and Subsurface Temperature, MP7M



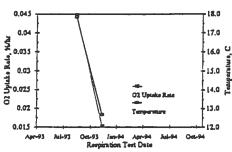
Zero Order O2 Uptake Rate and



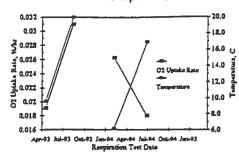
Zero Order O2 Uptake Rate and Subsurface Temperature, MP7D



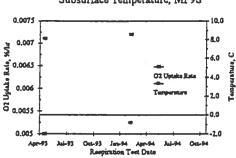
Zero Order O2 Uptake Rate and Subsurface Temperature, MP8D



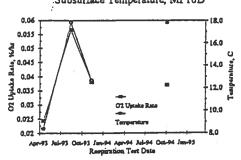
Zero Order O2 Uptake Rate and Subsurface Temperature, MP10M



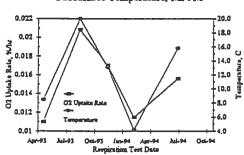
Zero Order O2 Uptake Rate and Subsurface Temperature, MP9S



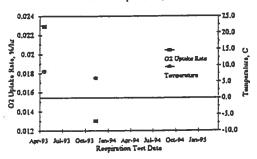
Zero Order O2 Uptake Rate and Subsurface Temperature, MP10D



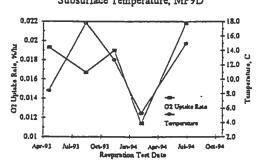
Zero Order O2 Uptake Rate and Subsurface Temperature, MP9M



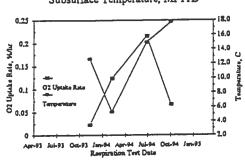
Zero Order O2 Uptake Rate and Subsurface Temperature, MP11S



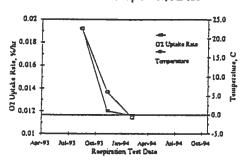
Zero Order O2 Uptake Rate and Subsurface Temperature, MP9D



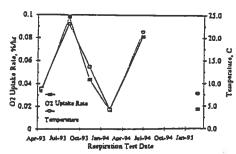
Zero Order O2 Uptake Rate and Subsurface Temperature, MP11D



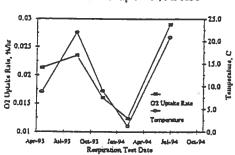
Zero Order O2 Uptake Rate and Subsurface Temperature, MP12S



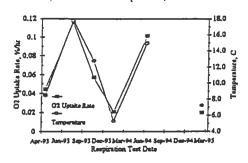
Zero Order O2 Uptake Rate and Subsurface Temperature, MP13M



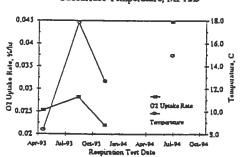
Zero Order O2 Uptake Rate and Subsurface Temperature, MP12M



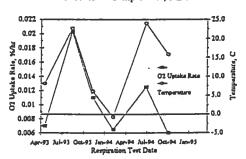
Zero Order OZ Uptake Rate and Subsurface Temperature, MP13D



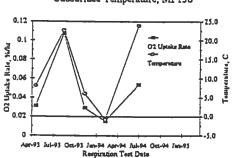
Zero Order O2 Uptake Rate and Subsurface Temperature, MP12D



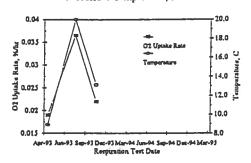
Zero Order O2 Uptake Rate and Subsurface Temperature, MP14S



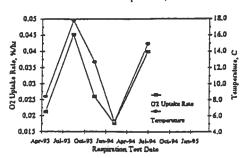
Zero Order O2 Uptake Rate and Subsurface Temperature, MP13S



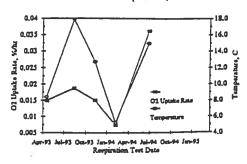
Zero Order O2 Uptake Rate and Subsurface Temperature, MP14M



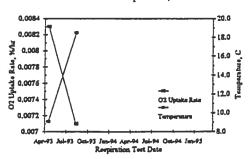
Zero Order O2 Uptake Rate and Subsurface Temperature, MP14D



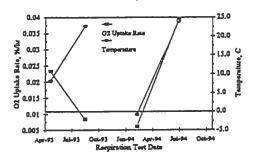
Zero Order O2 Uptake Rate and Subsurface Temperature, MP16D



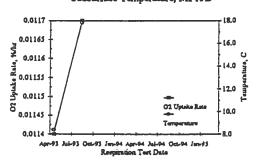
Zero Order O2 Uptake Rate and Subsurface Temperature, MP15M



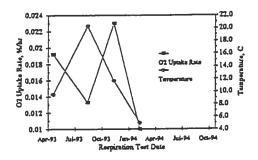
Zero Order O2 Uptake Rate and Subsurface Temperature, MP17S



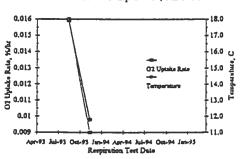
Zero Order O2 Uptake Rate and Subsurface Temperature, MP15D



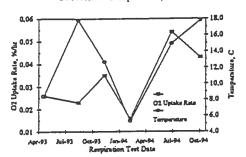
Zero Order O2 Uptake Rate and Subsurface Temperature, MP17M



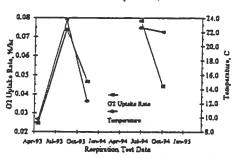
Zero Order O2 Uptake Rate and Subsurface Temperature, MP16M



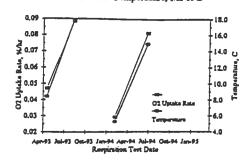
Zero Order O2 Uptake Rate and Subsurface Temperature, MP17D



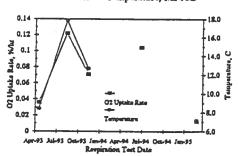
Zero Order O2 Uptake Rate and Subsurface Temperature, MP18M



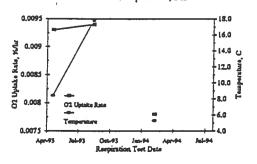
Zero Order O2 Uptake Rate and Subsurface Temperature, MP19D



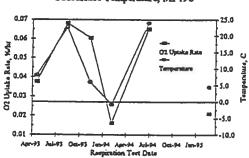
Zero Order O2 Uptake Rate and Subsurface Temperature, MP18D



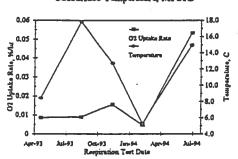
Zero Order O2 Uptake Rate and Subsurface Temperature, MP20D



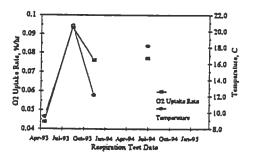
Zero Order O2 Uptake Rate and Subsurface Temperature, MP19S



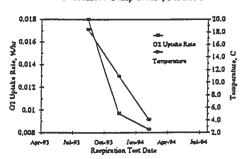
Zero Order O2 Uptake Rate and Subsurface Temperature, MP21D



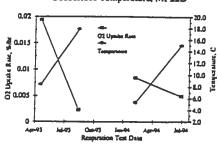
Zero Order O2 Uptake Rate and Subsurface Temperature, MP19M



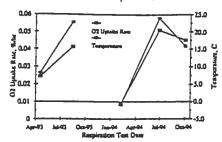
Zero Order O2 Uptake Rate and Subsurface Temperature, MP22M



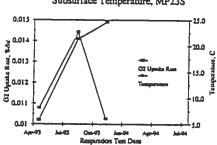
Zero Order O2 Uptake Rate and Subsurface Temperature, MP22D



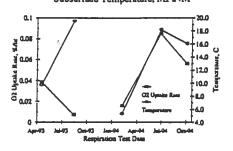
Zero Order O2 Uptake Rate and Subsurface Temperature, MP24S



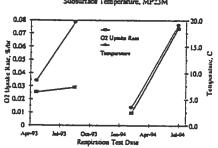
Zero Order O2 Uptake Rate and Subsurface Temperature, MP23S



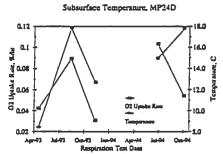
Zero Order O2 Uptake Rate and Subsurface Temperature, MP24M



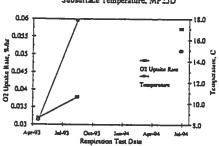
Zero Order O2 Uptake Rate and Subsurface Temperature, MP23M



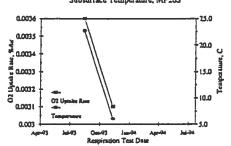
Zero Order O2 Uptake Rate and



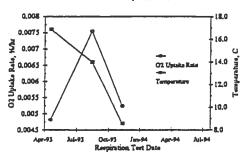
Zero Order O2 Uptake Rate and Subsurface Temperature, MP23D



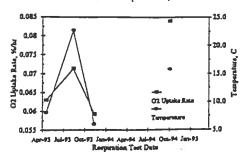
Zero Order O2 Uptake Rate and Subsurface Temperature, MP26S



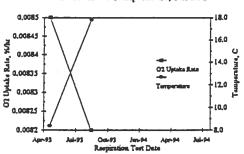
Zero Order O2 Uptake Rate and Subsurface Temperature, MP26M



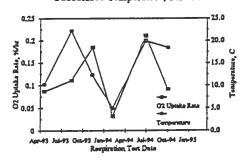
Zero Order O2 Uptake Rate and Subsurface Temperature, MP29S



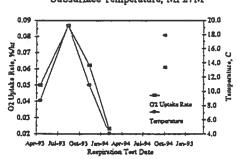
Zero Order O2 Uptake Rate and Subsurface Temperature, MP26D



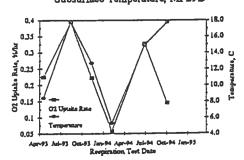
Zero Order O2 Uptake Rate and Subsurface Temperature, MP29M



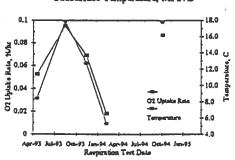
Zero Order O2 Uptake Rate and Subsurface Temperature, MP27M



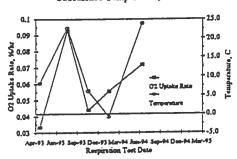
Zero Order O2 Uptake Rate and Subsurface Temperature, MP29D



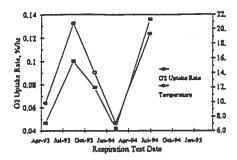
Zero Order O2 Uptake Rate and Subsurface Temperature, MP27D



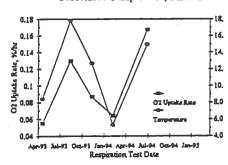
Zero Order O2 Uptake Rate and Subsurface Temperature, MP34S



Zero Order O2 Uptake Rate and Subsurface Temperature, MP34M



Zero Order O2 Uptake Rate and Subsurface Temperature, MP34D



TEMPERATURE CORRECTION REGRESSION RESULTS

Simple Regression X₁: 1/T(abs) Y₁: ln(r)

Count:	R:	R-squared:	Adj. R-squared:	RMS Residual:
77	.648	.42	.412	.546

Analysis of Variance Table

Source	DF:	Sum Squares:	Mean Square:	F-test:
REGRESSION	1	16.171	16.171	54.237
RESIDUAL	75	22.361	.298	p = .0001
TOTAL	76	38.532		

No Residual Statistics Computed

Note: 25 cases deleted with missing values.

Simple Regression $X_1: \mathcal{V}T(abs)$ $Y_1: ln(r)$

Beta Coefficient Table

Variable:	Coefficient:	Std. Err.:	Std. Coeff.:	t-Value:	Probability:
INTERCEPT	16.343	2-			
SLOPE	-5571.224	756.486	648	7.365	.0001

Confidence Intervals Table

Variable:	95% Lower:	95% Upper:	90% Lower:	90% Upper:
MEAN (X,Y)	-3.322	-3.074	-3.302	-3.095
SLOPE	-7078.372	-4064.076	-6831.212	-4311.236

CALCULATION OF MEAN SUBSURFACE TEMPERATURE AT FPTA NO. 1

3/6/95	Temo		2	1	9.4	15	2	1	2,2		, ;	28	6.5	1,6	17	7.5		8 8	7.6		7.2	9.9		7.5	9.2	8.6	8.2	8.2	9.5	60	6.7	7.5	6	9.3	10.7	8.0	12.0
1/18/95	Temo				10.2	4.6	80				100	99	4.6	8.4	9.8	7.0			10.0			7.0		7.2		9.3	5.4	6.7	10.6	9.8	9.9	7.6	8.5	10.6	11.4	8.3	verage
12/3/94	Temp	2,5	1	101	12.6	17.5	2			13.2	12	9.2	6.3	12.2	13.5	8.7			13.7						9.01			11.3	14.0	11.9			10.9	12.6	14.7	9.11	Annual Average
10/13/94	Temo	17.4		17.8	17.2		16.7	14.8	18.7	19.2	10.8	16.9	16.6	21.3	20	15	16.2	17.8	21.8						16.6			18	20.9	18.8			16.7	17.3	21.2	18.2	·
9733/94	Temo	10.4		19.8	17.9	20.3	17.6	18.7	20.8	19.8	20.2	20.1	20.0	23.9	20.4	29.6	17.1	19.6	24.2						18.2	14.8	15.8	19.4	21.9	21.0			18.0	18.0	22.6	20.0	
825/94	Temp	20.7		20.1	17.6	23.1	17.4	10.7	21.2	19.1	202	21.5	21.4	23.9	20.2	18.8	17.9	20.8	24.3	22.3	16.7	18.1		20.0	18.9	15.5	15.9	19.5	22.2	21.0	15.3	15.6	18.9	18.5	22.4	9.61	
17/194	Тетр	_		18.3	14.8	222	15.4	18.5	10.0	16.3	12.1	19.9	20.8	20.1	91	17.6	15.7	18.8	21.6	17.9	14.6	13		19.2	17.7	12.9	13.6	18.5	16.4	19.3	14.3	14	16.6	15.4	18	17.4	
673/94	Temp			=	12.1	16.6	11.6	5	140	=	123	13.1	16.7	13.7	4.4	13.4	12.5	14.3	16.6	0.:	0	12.4		14.3	13.9	10.0	10.5	12.1	14.2	14.7	Ξ	10.8	13.2	12.3	14.5	5	
473794	Temp	6.2		5.4	8.2	8.4	8.9	99	7.3	5.3	0.9	8.4	7.2	6.2	5.5	7.5	7.1	8.1	8.9	7.1	5.4	6.1		7.4	7.9	5.0	5.5	6.1	8.2	7.9	4.7	5.5	7.3	6.7	7.5	6.7	
3726/94	Temp	4.0		8.4	7.6	5.6	6.4	4.9	4	4	0.9	6.7	5.3	5.2	4.8	6.3	6.3	7.0	8.9	6.2	4.8	4.4		5.4	7.1	5.4	4.9	4.8	7.5	7.2	3.9	5.0	6.2	6.2	7.3	5.7	
2/28/94	Temp			3.8	7.1	1.2	5.8	3.7	3.8	4.0	6.4	4.0	1.4	4.7	4.9	3.5	5.9	5.0	5.7	0.9	8.9	2.8		3.4	5.1	5.0	4.9	4.0	6.5	4.5	2.7	4.0	5.6	6.2		4.5	
712/94	Temp	2.3		2.8	5.2	0.5	4.6	2.5	2.2	3.4	5.1	3.1	9.0	3.4	3.7	2.5	4.1	3.9	4.6	4.9	4.0	3.8	6.7	9.9	5.8	4.4	4.6	4.3	6.7	4.7	3.7	7.2	5.0	5.4	6.3	4.2	
1/15/94	Temp	4.9		6.3	8.9	4.3	8.6	6.2	9.9	7.8	9.0	6.7	4.0	7.0	8.1	5.2	7.0	6.7	1.7	9.3	5.8	4.5	6.2	4.8	0.0	6.7	6.8	6.4	8.4	6.2	4.4	2.0	9.9	8.7	10.3	6.7	
נפורועו	Тепр	3.3		3.6	8.3	1	7	4.9	5.4	7.4	8.3	5.5	3.6	7.2	8.1	5.2	6.7	6.5	8.1	8.9	9	4.1	~	3.9	5.2	5.6	5.6	5.4	7.6	6.2	4.3	5.4	6.8	7.8	8.6	6.1	
56/21/11	Tenp	6		13	14.5	6.7	13.6	9.1	12.4	12.6	14.5	10.8	6.1	12.1	-0	2	11.5	10.2	4.1	11.8	11.3	103	9.1	10.7	11.7	8.8	6	9.4	=	13.7	57	9.6	63	11.9	13.9	0.1	
10/16/93	Temp	15		12	16.8	15	16.3	14.9	16.2	17.2	17.9	16.2	15.6	18.9	17.9	2.5	14.4	16.2	19.5	18.1	13.9	13.6	14.6	7	14.5	16.5	13.7	15.7	17.2	17.8	12.6	12.8	13.1	7.4	9.6	15.5	1
9/20/93	Temp	- 61		20.5	19.5	19.9	9.61	20	21.1	21.3	21	20.2	20.4	22	21.3	8	81	19.8	24	22.1	18.2	17.9	18.1	18.2	18.5	9.91	16.7	18.9	20.4	20.4	[63	16.2	-	29	9.6	19.4	1
6/19/93	Temp	19.9		20.5	23.7	22.1	18.7	19.8	21.4	19.7	20.2	21.5	22	23.2	9.61	92	17.7	02	23.4	20.8	9.91	17.5	17.8	19.3	18.7	질	16.4	19.5	20.8	21.5	164	15.7	17.9	6.9	7	19.5	1
6/28/93	Temp	15.6		15.4	13.1	18.4	13.5	15.4	16	5	14.4	16.8	67.1	9.91	13.7	14.7	13.5	15.5	5.2	14.7	17.1	13.6	12.9	15.2	2.5	70	9.1	34	25.5	16.5	2	- 2	=	13.2	16.2	43	1
6/4/93	Temp	12.6	12.1	135	2.2	123	15.5	12.3	13.6		Ξ	12.	9	=	2	Ξ	12.7	15.3	 	12.9	7.	12.5	12.1	13.4	13.9	9.0	=	2.4	2.5	15.4	=	7	12.7	122	2 5	13.2	
4721/93	Jemp	7	۰	7.4	00)	7.9	9.4	8.8	8.7	8.2	88	2.7	89	9.5	7.	9.5	2	5.4	1.6	9.5	6.7	9.6	2	2.7	8.6		80	6	1	2	7	7.9	2.6	2.6	2	***	
Monitoring 4/21/93 6/4/93 6/28/93 8/19/93	roint		7	7	4	2	9	7	64	6	2	=	12	2	4	2	91	17	62	61	00	11	22	23	24	2	92	131	28	67	3	F .	7 2	7	¥ .	Average	

TEMPERATURE-CORRECTED RESPIRATION RATES FOR MONITORING POINTS USED IN TEMPERATURE-CORRECTION REGRESSION

Arrhenius

slope -5571

Mean

Upper 95% CL -7078 Lower 95% CL -4064 St. temp, C 12

Monitoring		1				T -			
Point		4/19/9	pper CL	Lower CL	95% CI	8/16/93	Upper CL	Lower CL	95% C
4D	Resp rate	0.085			0.06				
	Temp	8.9	8.9	8.9	8.9				
	Corr rate	0.110	0 .1 7 6ó	0.0439	0.0663				
6M	Resp rate	0.024			0.0193	0.0866			0.0751
	Temp	9.6	9.6	9.6	9.6	22.0	22.0	22.0	22.0
	Corr rate	0.023	0.0493	1800.0	0.0206	0.0446	0.1285	-0.0378	0.0831
9M	Resp rate	0.01 10			0.004	0.0208			0.0139
ŀ	Temp	8.≟	3.4	8.4	8.4	20.0	20.0	20.0	20.0
1	Согт гасе		1910.0	0.0092	0.0049	0.0122	0.0280	-0.0033	0.0157
12M	Resp rate				0.0131	0.0235			0.0090
1	Temp	8.3	8.8	8.8	8.8	22.0	22.0	22.0	22.0
	Corr rate	ľ	0.0410	0.0119	0.0147	0.0121	0.0235	0.0011	0.0112
138	Resp rate				0.0194	0.1074			0.0608
	Temp	8.1	8.1	8.1	8.1	22.7	22.7	22.7	22.7
	Corr rate	i	0.0633	0.0185	0.0224	0.0530	0.1250	-0.0170	0.0710
13M	Resp rate				0.0135	0.0980			0.0442
	Temp	9.0	9.0	9.0	9.0	23.0	23.0	23.0	23.0
	Corr rate		0.05 73	0.0256	0.0158	0.0474	0.1019	-0.0053	0.0536
13D	Resp rate				0.0097	0.1161			0.0262
	Temp	8.4	8.4	8.4	8.4	17.8	17.8	17.8	17.8
	Corr rate	0.0571	0.07 03	0.0437	0.0136	0.0785	0.1135	0.0444	0.0345
14D	Resp rate				0.0096	0.0452			0.0170
	Temp	8.4	8.4	8.4	8.4	17.8	17.8	17.8	17.8
	Corr rate	0.0272	0.03 87	0.0158	0.0114	0.0306	0.0510	0.0105	0.0202
18D	Resp rate		0.4		0.026	0.1219			0.0578
	Temp	8.4	8.4	8.4	8.4	17.8	17.8	17.8	17.8
100	Corr rate		3.07 55	0.0172	0.0291	0.0824	0.1494	0.0163	0.0665
198	Resp rate	0.0376	0.1		0.0116		00.7	20.5	0.0253
	Temp	8.1	8.1	1.8	1.8	22.7	22.7	22.7	22.7
19D	Corr rate	0.0493 0.0470	3.0647	0.0342	0.0152	0.0336	0.0660	0.0025	0.0318
190	Resp rate		0.4	0.4	0.01	0.0885	170	170	0.0180
	Temp	8.4 0.060 <u>-</u> 4	8.4 3.0745	8.4	8.4	17.8	17.8	17.8	17.8
245	Corr rate	0.0242	3.07-10	0.0464	0.0141	0.0598	0.0845	0.0358	0.0243
243	Resp rate	8.1	8.1	8.1	0.0217	0.0410	22.7	22.7	
	Temp	0.0317	3.0 559		1.8	22.7	22.7 0.0612		22.7
27M	Corr rate Resp rate	0.0499	1.0339	0.0078	0.0240	0.0202	0.0012	-0.0200	0.0406
27141	Temp	8.7	8.7	8.7	0.0147	0.0868 19.3	19.3	19.3	19.3
	Corr rate		3.081÷	0.0443		0.0533	0.1182	-0.0107	0.0645
27D		0.0525	3.0019	U.U***3	0.0186	0.0333	0.1102	-0.0107	0.0302
2110	Temp	8.4	8.4	8.4			170	17.8	17.8
		0.067≟	0.4 0.1040	0.0311	8.4 0.0365	17.8 0.0643	17.8 0.1017	0.0276	0.0370
34M		0.0465	211040	0.0311	0.0363	0.1004	0.1017	0.0470	0.0370
J.→f.∧T	Temp	9.8	9.8	9.8	9.8	20.8	20.8	20.8	20.8
	Corr rate		9.3 3.070€	0.0378		0.0559	0.0896	0.0236	0.0330
	COLLIACE	0.034.	3.0700	0.0378	0.0164	6,000	0.0070	0.0230	0.0330

Arrhenius

slope

Mean

-5571

Upper 95% CL Lower 95% CL -7078 4064

St. temp, C

12

Monitoring Point 11/15/93 Upper CL Lower CL 95% CI 2/12/94 Upper CL Lower CL 95% CI 4D Resp rate 0.1020 0.0170 0.0550 0.0153 Temp 12.6 12.6 12.6 12.6 3.7 3.7 3.7 3.7 Corr rate 0.0979 0.1160 0.0798 1810.0 0.0987 0.1309 0.0690 0.0310 6M Resp rate 0.0514 0.0223 0.0286 0.0057 Temp 10.6 10.6 10.6 10.6 1.6 1.6 1.6 1.6 0.0565 Corr rate 0.0802 0.0328 0.0237 0.0602 0.0793 0.0436 0.0178 9M 0.0170 Resp rate 0.0070 0.0115 0.0017 Temp 13.1 13.1 13.1 13:1 4.3 4.3 4.3 4.3 Corr rate: 0.0158 0.0231 0.0085 0.0073 0.0199 0.0247 0.0155 0.0046 12M Resp rate 0.0160 0.0100 0.0124 0.0057 Temp 9.0 9.0 9.0 9.0 1.3 1.3 1.3 1.3 0.0197 Corr rate 0.0308 0.0086 0.0111 0.0266 0.0384 0.0160 0.0112 138 Resp rate 0.0290 0.0060 0.0069 0.0151 Temp 6.0 6.0 6.0 -0.8 -0.8 -0.8 6.0 -0.8 0.0554 Corr rate 0.0441 0.0554 0.0334 0.0110 0.0226 0.0164 0.0379 13M Resp rate 0.0440 0.0070 0.0168 0.0071 Temp 13.8 13.8 4.4 4.4 13.8 13.8 4.4 4.4 Corr rate 0.0402 0.0391 0.0473 0.0308 0.0083 0.0286 0.0177 0.0113 13D Resp rate 0.0570 0.0060 0.0207 0.0082 Temp 12.7 12.7 12.7 12.7 5.3 5.3 5.3 5.3 0.0544 Corr rate 0.0611 0.0478 0.0067 0.0331 0.0458 0.0210 0.0124 0.0176 14D Resp rate 0.0260 0.0110 0.0150 5.3 5.3 Temp 12.7 12.7 12.7 12.7 5.3 5.3 Corr rate 0.0248 0.0401 0.0095 0.0153 0.0282 0.0430 0.0138 0.0146 18D Resp rate 0.0707 0.0177 Temp 12.7 12.7 12.7 12.7 Corr rate 0.0675 0.0861 0.0490 0.0185 195 0.0603 0.0161 Resp rate 0.0095 0.0133 Temp 6.0 6.0 6.0 -0.8 -0.8 -0.8 -0.8 6.0 Corr rate 0.0916 0.1121 0.0723 0.0199 0.0404 0.0651 0.0182 0.0234 19D Resp rate 0.0293 0.0211 Temp 5.3 5.3 5.3 5.3 Corr rate 0.0469 0.0744 0.0202 0.0271 245 Resp rate 0.0083 0.0067 -0.8 Temp -0.8 -0.8 -0.8 Corr rate 0.0208 0.0333 0.0096 0.0119 27M 0.0091 Resp rate 0.0622 0.0234 0.0383 Temp 10.9 10.9 4.1 10.9 10.9 4.1 4.1 4.1 Corr rate 0.0672 0.1070 0.0275 0.0397 0.0409 0.0566 0.0260 0.0153 27D Resp rate 0.0691 0.0390 0.0182 0.0117 Temp 5.3 5.3 5.3 12.7 12.7 12.7 12.7 5.3 Corr rate 0.0660 0.1058 0.0262 0.0398 0.0448 0.0140 0.0154 0.0291 34M 0.0062 Resp rate 0.0778 0.0591 0.0422 Temp 14.1 14.1 14.1 7.1 7.1 7.1 7.1 14.1 0.0117 Corr rate 0.0673 0.1291 0.0056 0.0617 0.0595 0.0714 0.0480

Arrhenius

slope

Mean

-5571

Upper 95% CL Lower 95% CL

-7078

-4064

St. temp, C

12

Monitoring Point 7/6/94 Upper CL Lower CL 95% CI 10/13/94 Upper CL Lower CL 95% CI 4D Resp rate 0.1387 0.0059 Temp 19.9 19.9 19.9 19.9 Corr rate 0.0819 0.1003 0.0651 0.0176 6M Resp rate 0.0617 0.0260 0.0670 0.0455 15.9 Temp 15.4 15.4 15.4 15.9 15.9 15.9 15.4 0.0490 0.0782 Corr rate 0.0200 0.0291 0.0515 0.1008 0.0024 0.0492 9M Resp rate 0.0156 0.0073 Temp 15.8 15.8 15.8 15.8 Corr rate 0.0121 0.0202 0.0040 0.0081 12M Resp rate 0.0290 0.0102 Temp 20.9 20.9 20.9 20.9 0.0160 0.0290 Corr rate 0.0035 0.0128 138 Resp rate. 0.0536 0.0410 Temp 24.0 24.0 24.0 24.0 Corr rate 0.0244 0.0712 -0.0213 0.0462 13M Resp rate 0.0810 0.0518 Temp 21.3 21.3 21.3 21.3 Corr rate 0.0437 0.1034 -0.0148 0.0591 13D Resp rate 0.1012 0.0451 Temp 15.0 15.0 15.0 15.0 0.0828 ·Corr rate 0.1325 0.0334 0.0496 14D Resp rate 0.0399 0.0388 Temp 15.0 15.0 15.0 15.0 Corr rate 0.0327 0.0733 -0.0079 0.0406 18D 0.0452 Resp rate 0.1042 Temp 15.0 15.0 15.0 15.0 Corr rate 0.0853 0.1352 0.0356 0.0498 198 Resp rate 0.0651 0.0098 Temp 24.0 24.0 24.0 24.0 Corr rate | 0.0297 0.0465 0.0142 0.0162 19D Resp rate 0.0814 0.0135 Temp 15.0 15.0 15.0 15.0 0.0666 Corr rate 0.0838 0.0496 0.0171 0.0265 245 Resp rate 0.0510 0.0222 0.0450 Temp 24.0 24.0 15.8 15.8 15.8 24.0 24.0 15.8 0.0232 0.0638 0.0060 0.0289 Corr rate 0.0509 -0.0034 0.0272 0.0348 27M Resp rate 0.0350 0.0610 Temp 17.9 17.9 17.9 17.9 0.0394 Сопт гаке 0.0807 0.0019 0.0410 27D 0.0640 Resp rate 0.0870 Temp 17.8 17.8 17.8 17.8 Corr rate 0.0590 0.1295 -0.0109 0.0702 34M Resp rate 0.1360 0.0260 Temp 19.4 19.4 19.4 19.4 Corr rate 0.0829 0.1208 0.0465 0.0371

Arrhenius

slope -5571

Mean

Upper 95% CL Lower 95% CL

-7078

St. temp, C

-4064 12

Monitoring					
Point		3/6/95	Upper CL	Lower CL	95% CI
4D	Resp rate				
Í	Temp	İ			
1	Corr rate	1			
6M	Resp rate				
	Temp	1			
	Corr rate				
9M	Resp rate	i			
	Temp	1			•
1014	Corr rate	ļ			9
12M	Resp rate				
ł	Temp				
138	Corr rate				
133	Resp rate				ľ
	Temp Corr rate				
13M	Resp rate	0.0172			0.0072
13141	Temp	7.8	7.8	7.8	7.8
	Corr rate	0.0230	0.0321	0.0141	0.0090
13D	Resp rate	0.0194	0.0321	0.0141	0.0030
132	Temp	7.2	7.2	7.2	7.2
	Corr rate	0.0271	0.0430	0.0115	0.0158
14D	Resp rate	0.0271	0.0-20	0.0115	0.0136
	Temp				- [
	Corr rate				
18D	Resp rate	0.0125			0.0086
	Temp	7.2	7.2	7.2	7.2
	Corr rate	0.0175	0.0277	0.0074	0.0102
198	Resp rate	0.0210			0.0086
	Temp	4.5	4.5	4.5	4.5
	Corr rate	0.0357	0.0499	0.0224	0.0138
19D	Resp rate	0.0293			0.0144
	Temp	7.2	7.2	7.2	7.2
	Corr rate	0.0410	0.0592		0.0181
24S	Resp rate				
	Temp				
	Corr rate				
27M	Resp rate]
	Temp				1
	Corr rate				
27D	Resp rate				
	Temp				1
	Corr rate				ļ
34M	Resp rate				1
	Temp				
	Corr rate				

TEMPERATURE-CORRECTED RESPIRATION RATES FOR ADDITIONAL MONITORING POINTS

Arrhenius slope
Mean -5571
Upper 95% CL -7078
Lower 95% CL -4064
St. temp, C 12

														*								
3	95% CI	0.0142	12.7	0.0145	0.0177	12.7	0.0186	0.0269	12.2	0.0272	0.0170	0.9	0.0273	0.0918	12.2	0.0925	0.0818	12.7	0.0845	0.0289	12.7	0.0299
,	ower CL		12.7	0.0069		12.7	0.0488		12.2	0.0479		0.9	0.0634		12.2	0.0894		12.7	0.1269		12.7	0.0529
	8/10/93 Upper CL Lower CL 93% CI 11/15/93 Upper CL Lower CL		12.7	0.0358		12.7	0.0860		12.2	0.1022		0.9	0.1180		12.2	0.2744		12.7	0.2960		12.7	0.1127
	11/15/93	0.0224	12.7	0.0214	0.0707	12.7	0.0674	0.0761	12.2	0.0751	0.0592	0.9	0.0901	0.1844	. 12.2	0.1819	0.2218	12.7	0.2114	0.0867	12.7	0.0828
200	95% CI		-		0.0578	17.8	0.0665	0.0324	20.7	0.0406	0.0499	22.7	0.0567	0.1061	22.2	0.1165	0.2019	17.8	0.2301	0.0388	17.8	0.0481
2	Lower CL					17.8	0.0165		20.7	0.0124		22.7	-0.0208		22.2	-0.0591		17.8	0.0381		17.8	0.0399
2	Jpper CL					17.8	0.1495		20.7	0.0937		22.7	0.0925		22.2	0.1738		17.8	0.4983		17.8	0.1361
1 60/71/0	8/10/93				0.1219	17.8	0.0825	0.0935	20.7	0.0524	0.0714	22.7	0.0352	0.1108	22.2	0.0564	0.3939	17.8	0.2667	0.1295	17.8	0.0875
050,01	73% CI				0.026	8.4	0.0291	0.012	9.5	0.0144	0.043	8.1	0.0491	0.0273	10.2	0.0306	0.14	8.4	0.1595	0.0138	8.4 4.	0.0186
4/10/03 [] result [] 10/03/01	LOWer CL					8.4	0.0172		9.5	0.0376		8.1	0.0338		10.2	0.0678		8.4	0.1294		8.4	0.0518
I Jones CI	Opper CL					8.4	0.0755		9.5	0.0664		8.1	0.1319		10.2	0.1291		8.4	0.4485		8.4	0.0890
4/10/03	4/17/17				0.0360	8.4	0.0462	0	9.5	0.0520	0.0630	8.1	0.0826	0.0869	10.2	0.0984	0.2245	8.4	0.2883	0.0547	8.4	0.0702
	5	Resp rate	Temp	Corr rate	Resp rate	Temp	Corr rate	Resp rate	Temp	Corr rate	Resp rate	Temp	Corr rate	Resp rate	Temp	Corr rate 0.0984	Resp rate	Temp	Corr rate 0.2883	Resp rate 0.0547	Тетр	Corr rate 0.0702
Monitoring	TOUR.	all			18D			19M			298			29M			29D			34D		

Arrhenius slope
Mean -5571
Upper 95% CL -7078
Lower 95% CL -4064
St. temp, C 12

O.0457 CL 95% CI 7/6/94 Upper CL Lower CL 95% CI 10/13/94 Upper CL Lower CL 95% CI 10/13/94 Upper CL Lower CL 95% CI 0.045/0 0.055/0 0.056/0 0.056/0 5.3 5.3 15.0 15.0 15.0 15.0 17.8 17.8 17.8 17.8 0.1295 0.0711 0.1761 0.2737 0.0791 0.0973 0.0454 0.1064 -0.0152 0.0645 0.1295 0.0711 0.1761 0.2737 0.0791 0.0972 0.06470 0.06470 0.0152 0.0649 0.0670 0.0647 0.0503 0.0722 18.2 <th></th> <th>9</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		9											
0.0457 0.2159 0.0876 0.0670 5.3 15.0 15.0 15.0 17.8 17.8 0.0711 0.1761 0.2737 0.0791 0.09454 0.1064 -0.0152 0.0712 0.1042 0.0352 0.0459 0.0670 17.8 17.8 0.0850 0.1350 0.0352 0.0499 0.0454 0.0959 -0.0047 0.0722 0.1350 0.0352 0.0499 0.0454 0.0959 -0.0047 0.0476 0.0722 0.0236 0.0243 0.0459 0.1336 -0.0047 0.0210 0.0476 0.0722 0.0236 0.0243 0.0849 0.1336 -0.0034 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0447 0.2676 0.3257 0.2102 0.0532 0.1651 0.0320 5	2/12/94 Upper CL Lower CL 95% CI	Upper CL		Lower CL	95% CI		Upper CL	Lower CL	95% CI	10/13/94	Upper CL	Lower CL	95% CI
5.3 15.0 15.0 15.0 17.8 17.8 17.8 0.0711 0.1761 0.2737 0.0791 0.0973 0.0454 0.1064 -0.0152 0.1042 15.0 15.0 15.0 17.8 17.8 17.8 15.0 15.0 15.0 15.0 17.8 17.8 17.8 0.0850 0.1350 0.0352 0.0499 0.0454 0.0959 -0.0047 0.0722 18.2 18.2 18.2 18.2 17.8 18.2 18.2 18.2 18.2 15.8 15.8 0.0476 0.0722 0.0236 0.0243 0.0840 0.1336 -0.0047 0.0476 0.0722 0.0236 0.0243 0.03649 0.1336 -0.0044 0.0280 0.2110 0.0320 0.0938 0.0350 0.1050 0.0142 0.0281 0.0320 0.0938 0.0430 0.1450 0.1450 0.0324 0.0440 0.150 1	0.1243			٠	0.0457	0.2159			0.0876	0.0670			0.0560
0.0711 0.1761 0.2737 0.0791 0.0953 0.0454 0.1064 -0.0152 0.1042 15.0 15.0 15.0 17.8 17.8 17.8 15.0 15.0 15.0 15.0 15.0 17.8 17.8 0.0850 0.1350 0.0352 0.0499 0.0454 0.0959 -0.0047 0.0722 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 0.0476 0.0722 0.0236 0.0243 0.0840 0.0476 0.0722 0.0236 0.0243 0.0840 0.0210 0.2110 0.0750 0.0760 0.0910 4.9 19.9 19.9 19.9 18.4 18.4 18.4 0.0280 0.1245 0.0320 0.0938 0.0590 0.1050 0.0142 0.0310 0.150 15.0 15.0 17.8 17.8 17.8 0.0150 0.1670	Temp 5.3 5.3	5.3		5.3	5.3	15.0		15.0	15.0	17.8	17.8	17.8	17.8
0.1042 0.0452 0.0670 15.0 15.0 15.0 17.8 17.8 15.0 15.0 15.0 17.8 17.8 0.0850 0.1350 0.0352 0.0499 0.0454 0.0959 -0.0047 0.0722 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 0.0476 0.0722 0.0236 0.0243 0.0840 15.8 15.8 0.0210 0.0476 0.0722 0.0236 0.0243 0.0840 0.1336 -0.0034 0.0210 0.2110 0.0720 0.0320 0.0910 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0320 0.0320 0.0938 0.0430 0.1450 0.0425 0.1050 0.0142 0.0447 0.2676 0.3257 0.2102 0.0502 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 <	0.1990	0.2717		0.1295	0.0711	0.1761		0.0791	0.0973	0.0454	0.1064	-0.0152	0.0608
15.0 15.0 15.0 15.0 17.8 17.8 17.8 0.0850 0.1350 0.0352 0.0499 0.0454 0.0959 -0.0047 0.0722 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 0.0476 0.0722 0.0236 0.0243 0.0476 0.0722 0.0236 0.0243 0.0476 0.0722 0.0236 0.0243 0.0476 0.0722 0.0236 0.0243 0.0210 0.2110 0.0649 0.1336 -0.0034 0.0280 0.1245 0.2196 0.0320 0.0910 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0552 0.1050 0.0142 0.0310 0.150 15.0 15.0 17.8 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0592 0.1651 0.0324 0.0136 15.0 <td< td=""><td>Resp rate</td><td></td><td></td><td></td><td></td><td>0.1042</td><td></td><td></td><td>0.0452</td><td>0.0670</td><td></td><td></td><td>0.0455</td></td<>	Resp rate					0.1042			0.0452	0.0670			0.0455
0.0850 0.1350 0.0352 0.0499 0.0454 0.0959 -0.0047 0.0722 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 0.0476 0.0722 0.0236 0.0243 0.0840 15.8 15.8 0.0210 0.2110 0.0760 0.0910 15.8 15.8 15.8 0.0280 0.1245 0.2196 0.0320 0.0910 0.0910 0.0142 0.0380 0.1245 0.2196 0.0320 0.0938 0.0552 0.1050 0.0142 0.031 0.3280 0.0320 0.0938 0.0450 0.1450 0.0142 5.3 15.0 15.0 15.0 17.8 17.8 17.8 0.0130 0.1670 0.2102 0.0577 0.0982 0.1651 0.0324 0.0261 0.1367 0.1743 0.0995 0.0374 0.0324 0.0324	Tenp					15.0	15.0	15.0	15.0	17.8	17.8	17.8	17.8
0.0722 0.0189 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 0.0476 0.0722 0.0236 0.0243 0.0210 0.2110 0.0760 0.0910 4.9 19.9 19.9 18.4 18.4 0.0320 0.0320 0.0938 0.0592 0.0142 0.0331 0.3280 0.0430 0.0430 0.01450 5.3 15.0 15.0 15.0 17.8 17.8 0.0477 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 17.8 17.8 17.8 0.0261 0.1670 0.0995 0.0952 0.1651 0.0324 0.0261 0.1367 0.01743 0.0995 0.0354	Corr rate					0.0850	0.1350	0.0352	0.0499	0.0454	0.0959	-0.0047	0.0503
0.0476 0.0722 0.0236 0.0243 0.0840 0.0476 0.0722 0.0236 0.0243 0.0840 0.0210 0.2110 0.0760 0.0910 15.8 15.8 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.031 0.3280 0.0320 0.0938 0.0592 0.1050 0.0142 5.3 15.0 15.0 15.0 15.0 17.8 17.8 0.0130 0.1670 0.2576 0.2327 0.2102 0.0537 0.0982 0.1651 0.0324 5.3 15.0 15.0 15.0 15.0 15.0 17.8 17.8 6.0130 0.1670 0.1670 0.0995 0.00982 0.1651 0.0324 6.026 0.1367 0.1743 0.0995 0.0374 0.0324 0.0324	Resp rate					0.0722			0.0189				
0.0476 0.0722 0.0236 0.0243 0.0840 0.0210 0.2110 0.0760 0.0913 15.8 15.8 0.0210 0.2110 0.0760 0.0910 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.0430 0.1450 0.1450 0.1450 5.3 15.0 15.0 15.0 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 17.8 17.8 0.0261 0.1577 0.0995 0.0374 0.0324 0.0324	Temp .					18.2	18.2	18.2	18.2				
0.0210 0.2110 0.0760 0.0649 0.1336 -0.0034 4.9 19.9 19.9 19.9 19.9 19.9 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.0430 0.1450 0.1450 0.0142 5.3 15.0 15.0 15.0 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 15.0 10.0324 5.3 15.0 15.0 15.0 15.0 15.0 10.0324 0.0261 0.1367 0.1743 0.0995 0.0374 0.0324	Corr rate					0.0476	0.0722	0.0236	0.0243				
0.0210 0.2110 0.0760 0.0649 0.1336 -0.0034 4.9 19.9 19.9 19.9 19.9 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.0320 0.0938 0.0450 0.1050 0.0142 5.3 15.0 15.0 15.0 15.0 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 15.0 0.0324 5.3 15.0 15.0 15.0 15.0 15.0 0.0324	Resp rate									0.0840			0.0640
0.0210 0.2110 0.0760 0.0336 -0.0034 4.9 19.9 19.9 19.9 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.0430 0.1450 0.1450 0.1450 5.3 15.0 15.0 15.0 15.0 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 0.0324 5.3 15.0 15.0 15.0 15.0 15.0 0.0324 0.0261 0.1367 0.1743 0.0995 0.0374 0.0324 0.0324	Temp									15.8	15.8	15.8	15.8
0.0210 0.2110 0.0760 0.0910 4.9 19.9 19.9 19.9 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.0430 0.1450 0.1450 5.3 15.0 15.0 15.0 17.8 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 15.0 5.3 15.0 15.0 15.0 15.0 15.0 15.0 0.0261 0.1367 0.1743 0.0995 0.0374 0.0324	Corr rate									0.0649	0.1336	-0.0034	0.0685
4.9 19.9 19.9 19.9 19.9 19.9 19.9 19.9 18.4 18.4 18.4 18.4 0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.0430 0.1450 0.1450 5.3 15.0 15.0 15.0 17.8 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 15.0 5.3 15.0 15.0 15.0 15.0 15.0 15.0 0.0261 0.1367 0.1743 0.0995 0.0374 0.0324 0.0324	0.0312				0.0210				0.0760	0.0910			0.0385
0.0280 0.1245 0.2196 0.0320 0.0938 0.0592 0.1050 0.0142 0.0331 0.3280 0.0430 0.1450 17.8 17.8 17.8 5.3 15.0 15.0 15.0 15.0 15.0 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 15.0 5.3 15.0 15.0 15.0 15.0 15.0 0.0261 0.1367 0.0143 0.0995 0.0374	4.9 4.9			4.9	4.9		19.9	19.9	19.9	18.4	18.4	18.4	18.4
0.0331 0.3280 0.0430 0.1450 5.3 15.0 15.0 15.0 15.0 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 15.0 15.0 15.0 15.0 15.0 5.3 15.0 15.0 15.0 15.0 15.0 0.0261 0.1367 0.1743 0.0995 0.0374	0.0514 0.0798		0	0.0239	0.0280		0.2196	0.0320	0.0938	0.0592	0.1050	0.0142	0.0454
5.3 15.0 15.0 15.0 15.0 17.8 17.8 17.8 0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 0.0300 5.3 15.0 15.0 15.0 15.0 0.0261 0.1367 0.1743 0.0995 0.0374	0.0570				0.0331				0.0430	0.1450			0.0560
0.0447 0.2676 0.3257 0.2102 0.0577 0.0982 0.1651 0.0324 0.0130 0.1670 0.0300 5.3 15.0 15.0 15.0 15.0 0.0261 0.1367 0.0995 0.0374	5.3			5.3	5.3		15.0	15.0	15.0	17.8	17.8	17.8	17.8
0.0130 0.1670 0.0300 5.3 15.0 15.0 15.0 0.0261 0.1367 0.1743 0.0995 0.0374	0.1367			0.0472	0.0447		0.3257	0.2102	0.0577	0.0982	0.1651	0.0324	0.0664
5.3 15.0 15.0 15.0 0.0261 0.1367 0.1743 0.0995	Resp rate 0.0639	,			0.0130				0.0300				
0.0261 0.1367 0.1743 0.0995	Temp 5.3 5.3	5.3		5.3	5.3		15.0	15.0	15.0				
	Corr rate 0.1023 0.1292	0.1292	- 1	0.0771	0.0261		0.1743	0.0995	0.0374				

CALCULATION OF MEAN TEMPERATURE-CORRECTED BACKGROUND SOIL RESPIRATION RATES

Arrhenius

slope

Mean

-5571

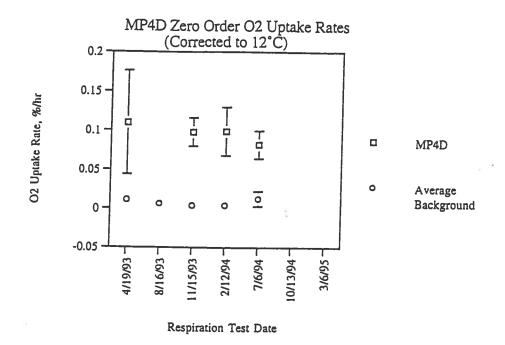
Upper 95% CL -7078 Lower 95% CL -4064

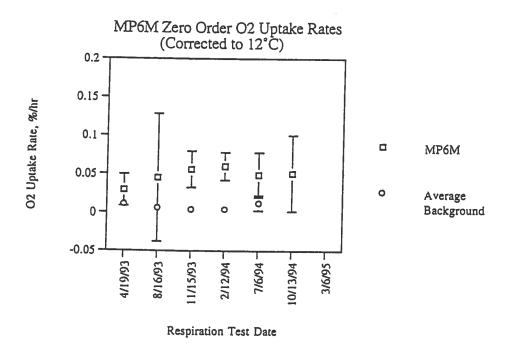
St. temp, C

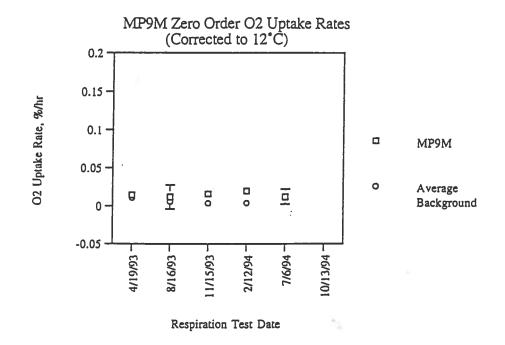
12

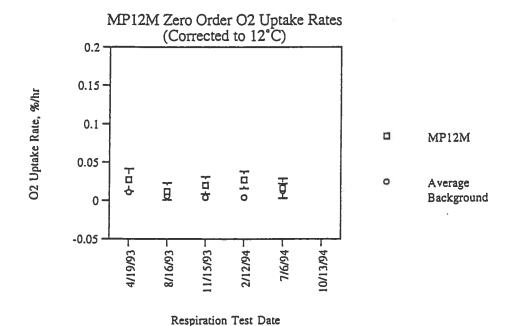
Point	Monitoring				Resp	iration T	est Date		
Corr rate			4/19/9	3 8/16/93				10/13/94	3/6/95
Temp Corr rate	205	Resp rate							
20M	J	Temp	8.1			,	1		
Temp	1	Corr rate	0.0077	0.0000	0.0000	0.0065	0.0052		
Temp	20M	Resp rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Resp rate		Temp		1	ŀ	1	20	}	1
Temp Corr rate 0.0119 0.0064 0.0 0.0125 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	}	Corr rate	0.0	0.0	0.0	0.0	0.0		ĺ
Corr rate	20D	Resp rate	0.0093	0.0094	0.0	0.0078	0.0	0.0	0.0
Corr rate						5.3			
Temp Corr rate		Corr rate	0.0119	0.0064	0.0	0.0125	0.0		
Corr rate Corr	215	Resp rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21M		Temp		İ		1			
Temp Corr rate		Corr rate	0.0	0.0	0.0	0.0	0.0		
Corr rate	21M	Resp rate	0.0	0.0053	0.0	0.0	0.0253	0.0	0.0
21D Resp rate 0.0086 0.0089 0.0156 0.0047 0.0533 0.0 0.0	ĺ	•		18.4		ſ	17.1		
Temp S.4 17.8 12.7 5.3 15.0 0.0035 0.0435 0.0075 0.0435 0.0075 0.0435 0.0075 0.0435 0.0075 0.0435 0.0075 0.0435 0.0075 0.0435 0.0075 0.0435 0.0075 0.0435 0.0075 0.0083 0.00	ĺ	Corr rate		0.0035	0.0	0.0	0.0179		
Corr rate Corr	21D		0.0086	0.0089	0.0156	0.0047	0.0533	0.0	0.0
Resp rate 0.0						5.3			
Temp Corr rate		1				0.0075	0.0435	ĺ	
Corr rate 0.0	225	• •	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Resp rate		* 1							
Temp Corr rate		1		0.0	0.0		, ,		
Corr rate 0.0 0.0117 0.0104 0.0145 0.0 0.0 0.0	22M		0.0				0.0	0.0	0.0
22D Resp rate 0.0194 0.0023 0.0 0.0083 0.0048 0.0 0.0		' '					1		j
Temp					ſ	,	1	İ	
Corr rate 0.0249 0.0016 0.0 0.0039 0.0039 0.0141 0.0149 0.0	22D	· · ·			0.0			0.0	0.0
23S	ĺ				Ì	5.3		ļ	
Temp 8.1 22.7 6.0 0.00 0.0 0.0 0.0 0.0 23M Resp rate 0.0255 0.0291 0.0 0.0096 0.0736 0.0 0.0 Temp 8.5 19.6 3.5 19.1 Corr rate 0.0325 0.0175 0.0 0.0175 0.0458 23D Resp rate 0.0319 0.0379 0.0 0.0 0.0571 0.0 0.0 Temp 8.4 17.8 15.0 Corr rate 0.0410 0.0257 0.0 0.0 0.0466 26S Resp rate 0.0 0.0036 0.0031 0.0 0.0 0.0 0.0 Temp 8.1 22.7 6.0 -0.8 24.0 Corr rate 0.0000 0.0018 0.0047 0.0 Corr rate 0.0000 0.0018 0.0047 0.0 26M Resp rate 0.0076 0.0066 0.0047 0.0 0.0 0.0 0.0 Temp 8.9 16.7 10.1 Corr rate 0.0094 0.0048 0.0054 0.0 26D Resp rate 0.0085 0.0082 0.0 0.0 0.0 0.0 0.0 Mean Corr rate 0.0109 0.0056 0.0 0.0 0.0 0.0 Mean Corr rate 0.0109 0.0056 0.0 0.0 0.0 0.0 0.0 Mean Corr rate 0.0109 0.0056 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.							1	ĺ	İ
Corr rate 0.0134 0.0070 0.0226 0.0 0.0 0.0 Resp rate 0.0255 0.0291 0.0 0.0096 0.0736 0.0 0.0 Temp 8.5 19.6 3.5 19.1 Corr rate 0.0325 0.0175 0.0 0.0175 0.0458 23D Resp rate 0.0319 0.0379 0.0 0.0 0.0571 0.0 0.0 Temp 8.4 17.8 15.0 Corr rate 0.0410 0.0257 0.0 0.0 0.0466 26S Resp rate 0.0 0.0036 0.0031 0.0 0.0 0.0 Temp 8.1 22.7 6.0 -0.8 24.0 Corr rate 0.0000 0.0018 0.0047 0.0 26M Resp rate 0.0076 0.0066 0.0047 0.0 0.0 0.0 Temp 8.9 16.7 10.1 Corr rate 0.0094 0.0048 0.0054 0.0 26D Resp rate 0.0085 0.0082 0.0 0.0 0.0 Temp 8.4 17.8 15.0 Corr rate 0.0109 0.0056 0.0 0.0022 0.0125 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0	238			- 1	,	0.0	0.0	0.0	0.0
Resp rate 0.0255 0.0291 0.0 0.0096 0.0736 0.0 0.0 Temp 8.5 19.6 3.5 19.1 Corr rate 0.0325 0.0175 0.0 0.0175 0.0458 23D Resp rate 0.0319 0.0379 0.0 0.0 0.0571 0.0 0.0 Temp 8.4 17.8 15.0 Corr rate 0.0410 0.0257 0.0 0.0 0.0466 26S Resp rate 0.0 0.0036 0.0031 0.0 0.0 0.0 Temp 8.1 22.7 6.0 -0.8 24.0 Corr rate 0.0000 0.0018 0.0047 0.0 26M Resp rate 0.0076 0.0066 0.0047 0.0 0.0 0.0 Temp 8.9 16.7 10.1 Corr rate 0.0094 0.0048 0.0054 0.0 26D Resp rate 0.0085 0.0082 0.0 0.0 0.0 Temp 8.4 17.8 15.0 Corr rate 0.0109 0.0056 0.0 0.0022 0.0125 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0		* 1							İ
Temp 8.5 19.6 3.5 19.1 0.0458 23D Resp rate 0.0319 0.0379 0.0 0.0175 0.0458 Temp 8.4 17.8 15.0 Corr rate 0.0410 0.0257 0.0 0.0 0.0466 26S Resp rate 0.0 0.0036 0.0031 0.0 0.0 0.0 Temp 8.1 22.7 6.0 -0.8 24.0 Corr rate 0.0000 0.0018 0.0047 0.0 26M Resp rate 0.0076 0.0066 0.0047 0.0 Temp 8.9 16.7 10.1 Corr rate 0.0094 0.0048 0.0054 0.0 26D Resp rate 0.0085 0.0082 0.0 0.0 0.0 Temp 8.4 17.8 15.0 Corr rate 0.0109 0.0056 0.0 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0		1							
Corr rate 0.0325 0.0175 0.0 0.0175 0.0458	25M			- 1	0.0			0.0	0.0
23D Resp rate 0.0319 0.0379 0.0 0.0 0.0571 0.0 0.0 Temp	J		- 1					İ	[
Temp			1						
Corr rate 0.0410 0.0257 0.0 0.0 0.0466	230				0.0	0.0		0.0	0.0
26S Resp rate 0.0 0.0036 0.0031 0.0 0.0 0.0 0.0 0.0 Temp 8.1 22.7 6.0 -0.8 24.0 Corr rate 0.0000 0.0018 0.0047 0.0 26M Resp rate 0.0076 0.0066 0.0047 0.0 0.0 0.0 0.0 0.0 0.0 Temp 8.9 16.7 10.1 Corr rate 0.0094 0.0048 0.0054 0.0 26D Resp rate 0.0085 0.0082 0.0 0.0 0.0 0.0 0.0 0.0 Temp 8.4 17.8 15.0 Corr rate 0.0109 0.0056 0.0 0.0 0.0 0.0 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0		_ *				1	-		
Temp 8.1 22.7 6.0 -0.8 24.0	268								
Corr rate 0.0000 0.0018 0.0047 0.0 0.0	205					,	I .	0.0	0.0
26M Resp rate 0.0076 0.0066 0.0047 0.0 0.0 0.0 0.0 0.0							24.0	İ	- 1
Temp 8.9 16.7 10.1 0.004 0.0054 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	201		- 1						
Corr rate 0.0094 0.0048 0.0054 0.0 0.0 0.0 0.0 0.0	20M					0.0	0.0	0.0	0.0
26D Resp rate 0.0085 0.0082 0.0 0.0 0.0 0.0 0.0 0.0	1								
Temp 8.4 17.8 15.0 Corr rate 0.0109 0.0056 0.0 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0	365		,		1				
Corr rate 0.0109 0.0056 0.0 0.0 0.0 Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0	260				0.0	0.0		0.0	0.0
Mean Corr rate 0.0109 0.0061 0.0039 0.0042 0.0125 0.0 0.0	ĺ	, ,				9.	,		
	Mara Cara								لــــــــــــــــــــــــــــــــــــــ
0.0065 0.0037 0.0035 0.0032 0.0098								0.0	0.0
	7J70 CI		0.0065	0.0037	0.0035	0.0032	0.0098		

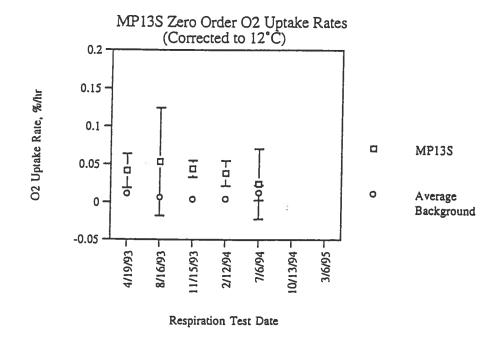
TEMPERATURE-CORRECTED RESPIRATION RATE PLOTS FOR MONITORING POINTS USED IN TEMPERATURE-CORRECTION REGRESSION

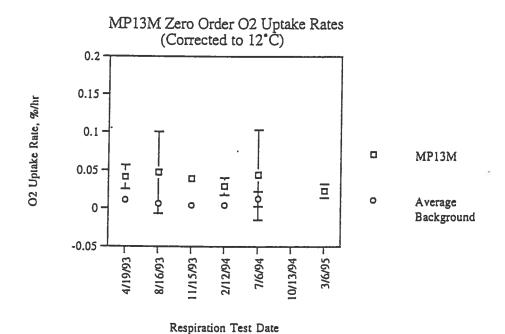


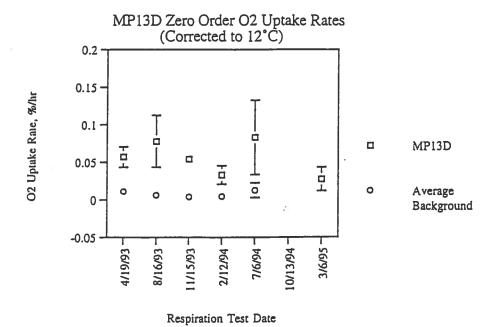


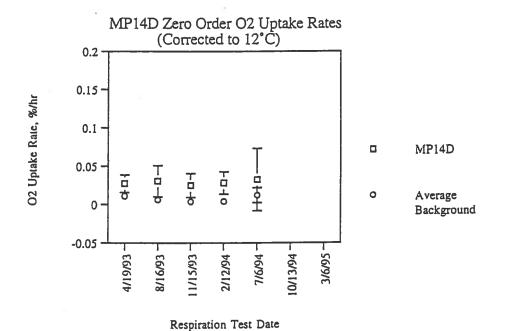


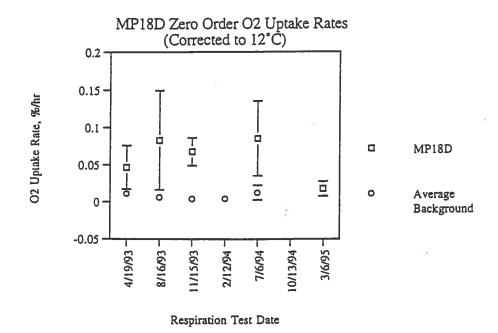


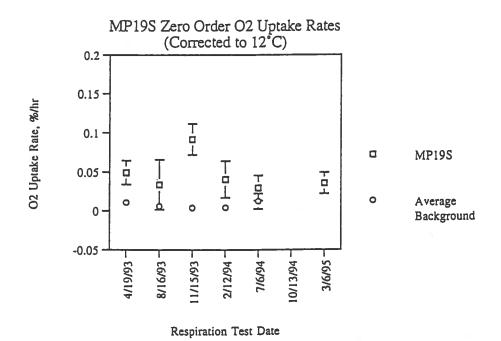


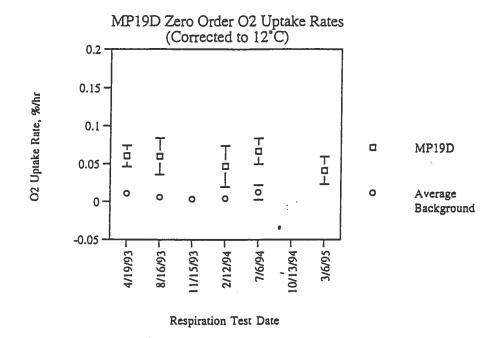


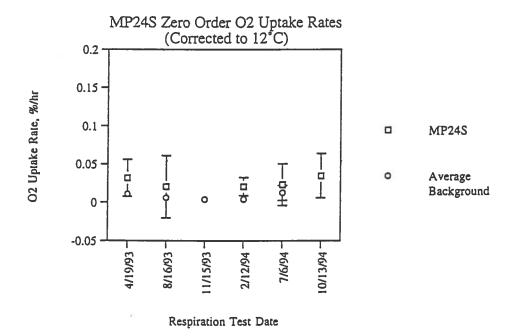


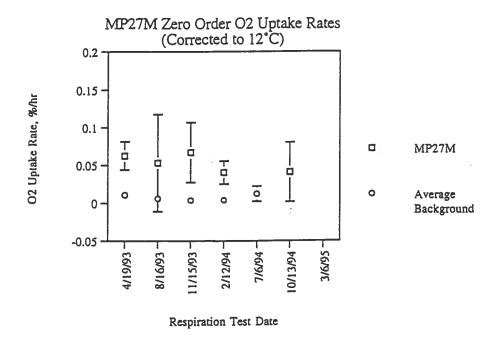


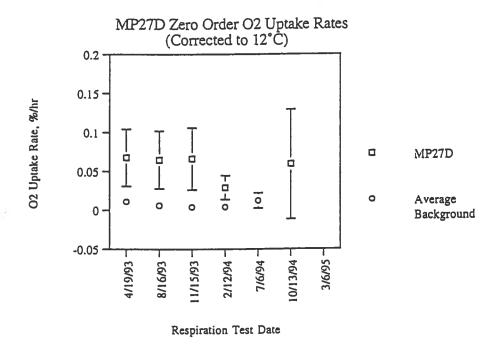


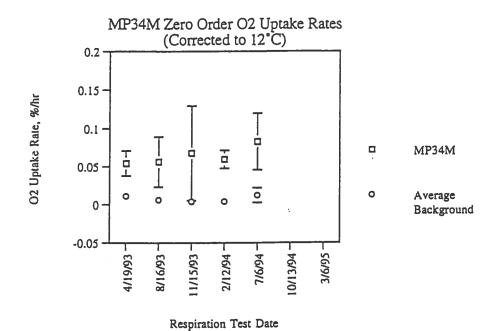








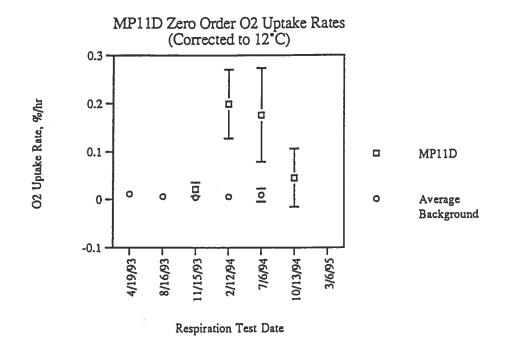


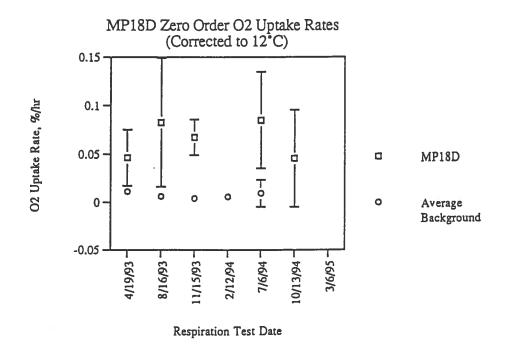


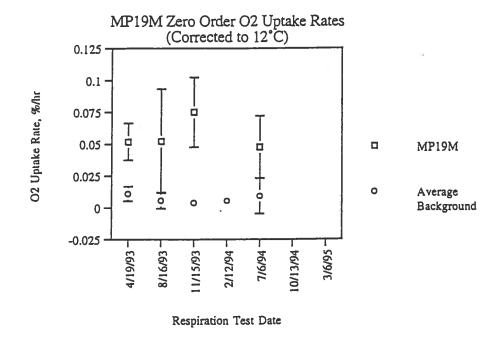
APPENDIX 26

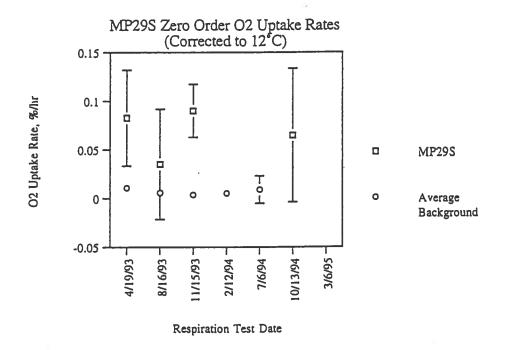
TEMPERATURE-CORRECTED RESPIRATION RATE PLOTS FOR ADDITIONAL MONITORING POINTS

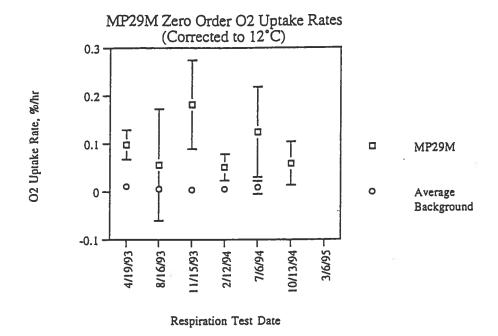
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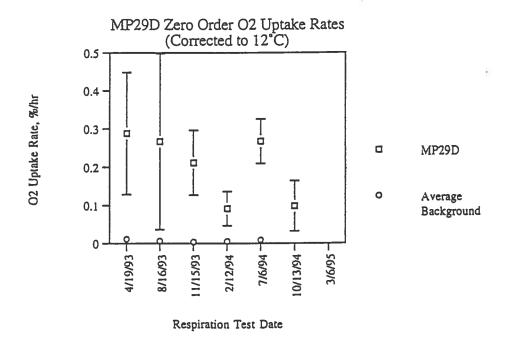


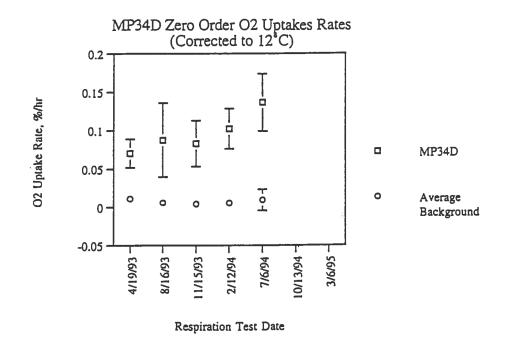










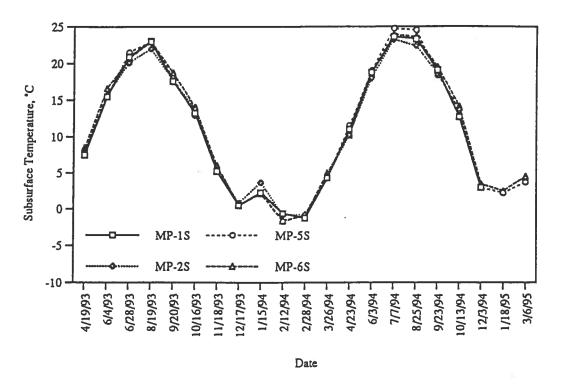


APPENDIX 27

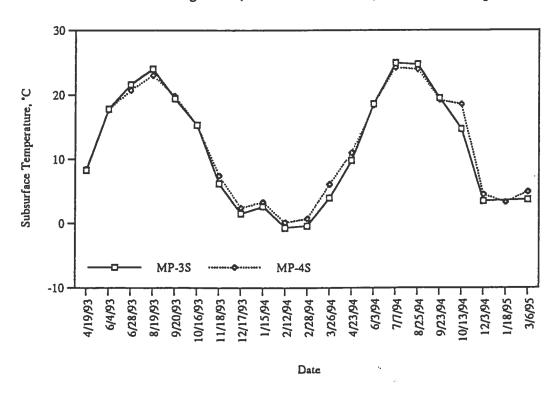
PLOTS OF TEMPERATURE DATA TO VERIFY DEPTHS OF MONITORING POINT THERMOCOUPLES IN VICINITY OF THE PLASTIC-COVERED AREA

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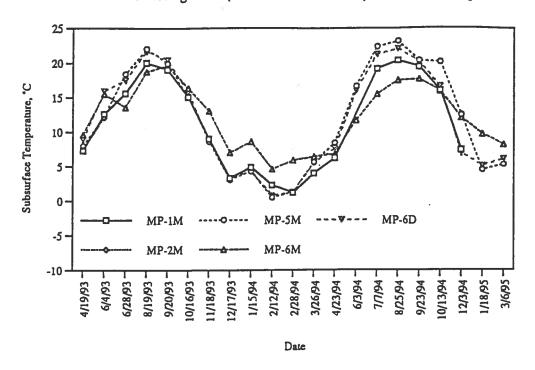
Shallow Monitoring Point (Outside Covered Area) Subsurface Temperatures



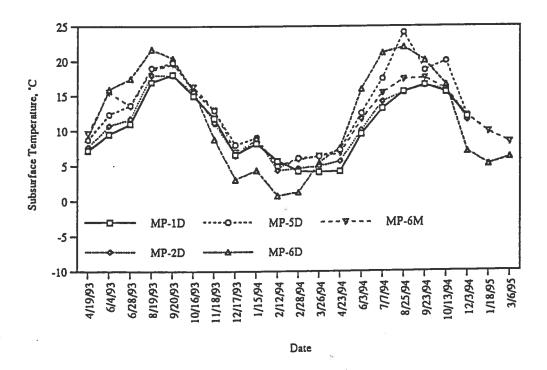
Shallow Monitoring Point (Inside Covered Area) Subsurface Temperatures



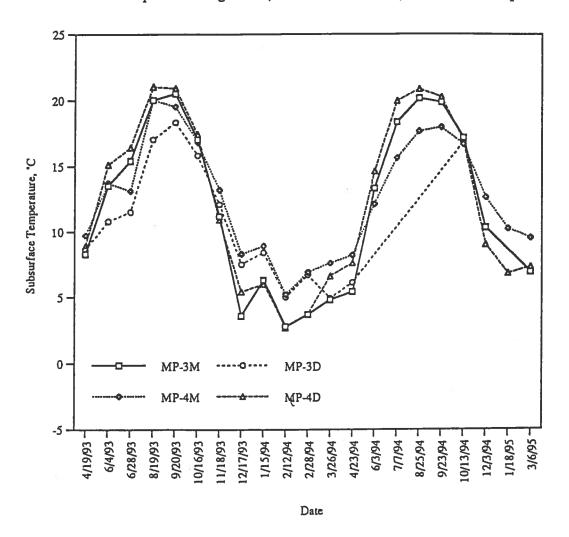
Medium Monitoring Point (Outside Covered Area) Subsurface Temperatures



Deep Monitoring Point (Outside Covered Area) Subsurface Temperatures



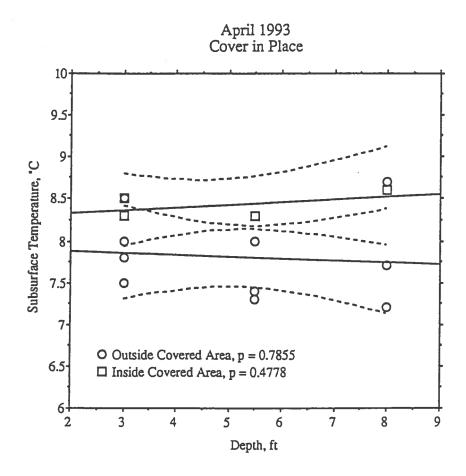
Medium and Deep Monitoring Point (Inside Covered Area) Subsurface Temperatures



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APPENDIX 28

RESULTS OF STATISTICAL ANALYSES OF MONITORING POINT AND SOIL THERMOCOUPLE TEMPERATURE DATA



April 1993 Inside Covered Area ANOVA Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	.048	.024	1.187
Within groups	1	.02	.02	p = .5443
Total	3	.068		

Model II estimate of between component variance = .003

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	2	8.4	.141	.1
м мр	1	8.3	•	•
D MP	1	8.6	•	•

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test	Dunnett t
S MP vs. M MP	.1	2.201	.167	577
S MP vs. D MP	-2	2.201	.667	1.155
M MP vs. D MP	-3	2.541	1.125	1.5

Ap... 1993 Outside Covered Area ANOVA ...sults

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test
Between groups	2	266	.133	.469
Within groups	7	1.983	.283	p = .6441
Total	9	2.249		

Model II estimate of between component variance = -.046

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	4	7.95	.42	.21
м мр	3	7.567	.379	.219
D MP	3	7.867	.764	.441

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:	
S MP vs. M MP	383	.961	.445	.943	
S MP vs. D MP	.083	.961	.021	.205	
M MP vs. D MP	-3	1.028	.238	.69	

April 3 ANOVA, All MPs Inside vs All MI Jutside

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	1.081	1.081	5.598
Within groups	12	2.317	.193	p = .0357
Total	13	3.397		

Model II estimate of between component variance = .155

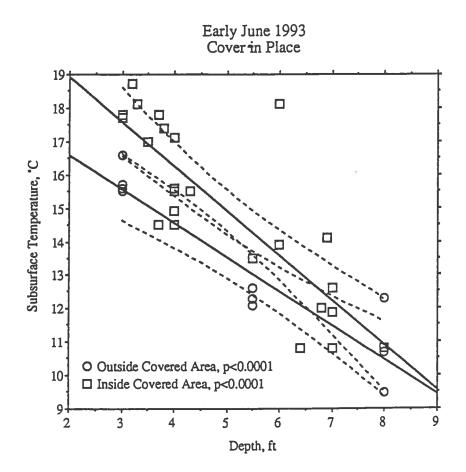
One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

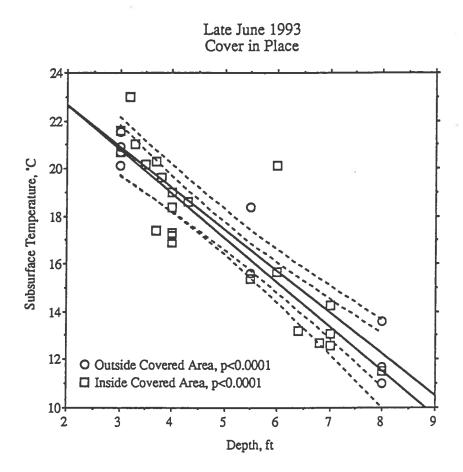
Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	10	7.81	5	.158
Inside	4	8.425	.15	.075

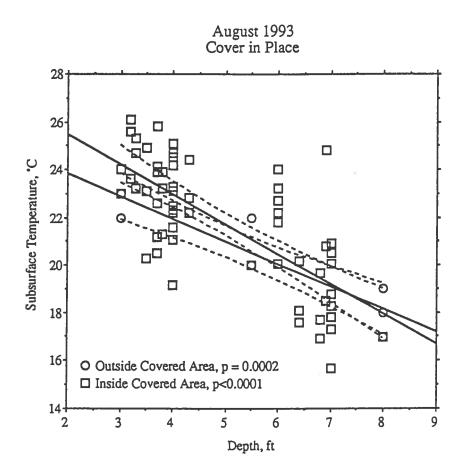
One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

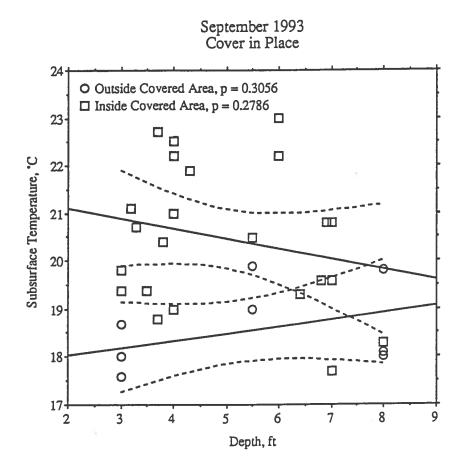
Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	615	.566*	5.598*	2.366

^{*} Significant at 95%









September 1993 Inside Covered Area ANOVA Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	4	8.161	2.04	.935
Within groups	18	39.271	2.182	p = .4659
Total	22	47.432		

Model II estimate of between component variance = -.039

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:	
S MP	2	19.6	.283	2	
м мр	1	20.5	•	•	į
D MP	1	18.3	•	•	
STC	11	20.882	1.382	.417	
DTC	8	20.375	1.694	.599	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	9	3.801	.062	.498
S MP vs. D MP	1.3	3.801	.129	.719
S MP vs. S TC	-1.282	2.385	319	1.129
S MP vs. D TC	775	2.453	.11	.664
M MP vs. D MP	2.2	4.389	.277	1.053

September 1993 Inside Covered Area ANOVA Results One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. S TC	-382	3.241	.015	247
M MP vs. D TC	.125	3.291	.002	.08
D MP vs. S TC	-2.582	3.241	.7	1.674
D MP vs. D TC	-2.075	3.291	.439	1.324
S TC vs. D TC	.507	1.442	.136	.738

September 1993 Outside Covered Area ANOVa Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	2.956	1.478	2.721
Within groups	6	3.259	.543	p = .1442
Total	8	6.216		

Model II estimate of between component variance = 324

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:	
S MP	4	17.975	.519	.259	
M MP	2	19.45	.636	.45	
D MP	3	18.633	1.012	<i>-</i> 584	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:	
S MP vs. M MP	-1.475	1.562	2.67	2.311	
S MP vs. D MP	658	1.377	.684	1.17	
M MP vs. D MP	.817	1.646	.737	1.214	

Sep. ...ber 1993 ANOVA, All Inside vs All ...side

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	24.421	24.421	13.656
Within groups	30	53.648	1.788	p = .0009
Total	31	78.069		

Model II estimate of between component variance = 1.749

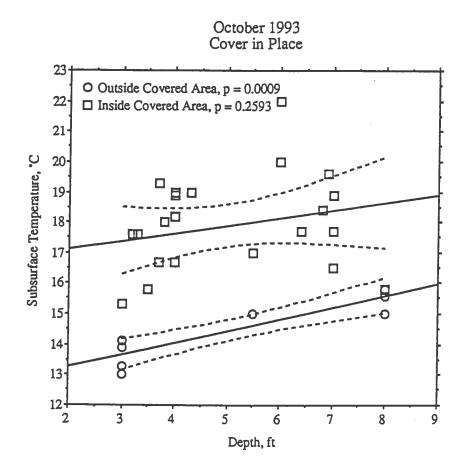
One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	9	18.522	.881	.294
Inside	23	20.465	1.468	.306

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-1.943	1.074*	13.656*	3.695

^{*} Significant at 95%



One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	4	25.94	6.485	3.523
Within groups	18	33.129	1.841	p = .0272
Total	22	59.069		

Model II estimate of between component variance = 1.264

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count	Mean:	Std. Dev.:	Std. Error:	
S MP	2	153	0	0	
M MP	1	17	•	•	
DMP	1	15.8	•	•	
STC	11	17.891	1.138	.343	
DTC	8	18.85	1.698	.6	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-1.7	3.491	262	1.023
S MP vs. D MP	-5	3.491	.023	301
S MP vs. S TC	-2.591	2.191*	1.543	2.484
S MP vs. D TC	-3.55	2.253*	2.739	331
M MP vs. D MP	1.2	4.031	.098	.625

^{*} Significant at 95%

Octuber 1993 Inside Covered Area ANOVA Lesults One Factor ANOVA X1: Type Y1: Subsurface Temp, *C

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. S TC	891	2.977	.099	.629
M MP vs. D TC	-1.85	3.023	.413	1.286
D MP vs. S TC	-2.091	2.977	544	1.476
D MP vs. D TC	-3.05	3.023*	1.123	2.12
S TC vs. D TC	959	1.324	579	1.521

^{*} Significant at 95%

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	3	11.477	3.826	1.963
Within groups	17	33.129	1.949	p = .1578
Total	20	44.606		

Model II estimate of between component variance = .465

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
м мр	1	17	•	•
D MP	1	15.8	•	•
STC	11	17.891	1.138	343
DTC	8	18.85	1.698	.6

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. D MP	1.2	4.165	.123	.608
M MP vs. S TC	891	3.076	.124	.611
M MP vs. D TC	-1.85	3.124	.52	1.249
D MP vs. S TC	-2.091	3.076	.685	1.434
D MP vs. D TC	-3.05	3.124	1.414	2.06

October 1993 A., Except Shallow MP Inside Covered A. a. ANOVA Results One Factor ANOVA X1: Type Y1: Subsurface Temp, 'C

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S TC vs. D TC	959	1.369	.729	1.479

Octuber 1993 Outside Covered Area ANOV. Lesults

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	6.721	3.361	17.779
Within groups	6	1.134	.189	p = .003
Total	8	7.856		

Model II estimate of between component variance = 1.098

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count	Mean:	Std. Dev.:	Std. Error:	
S MP	4	13.575	.512	.256	
M MP	2	15	0	0	
D MP	3	15.467	.416	.24	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test	Dunnett t:
S MP vs. M MP	-1.425	.921*	7.162*	3.785
S MP vs. D MP	-1.892	.813*	16.226*	5.697
M MP vs. D MP	467	.971	.691	1.176

^{*} Significant at 95%

October 1993 Meulum and Deep MP Outside Covered Area ANOVA Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, 'C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	261	.261	2.262
Within groups	3	347	.116	p = .2297
Total	4	.608		

Model II estimate of between component variance = .061

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
M MP	2	15	0	0
D MP	3	15.467	.416	.24

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. D MP	467	.988	2.262	1.504

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	3.968	3.968	20.152
Within groups	4	.787	.197	p = .0109
Total	5	4.755		

Model II estimate of between component variance = 1.414

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	4	13.575	.512	.256
Inside	2	153	0	0

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-1.725	1.067*	20.152*	4.489

^{*} Significant at 95%

October 1993 ANOV., All Except Shallow MP Inside vs Med. ... & Deep MPs Outside

One Factor ANOVA X1: Location Y1: Subsurface Temp, 'C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	32.442	32.442	17.22
Within groups	24	45.214	1.884	p = .0004
Total	25	77.655		

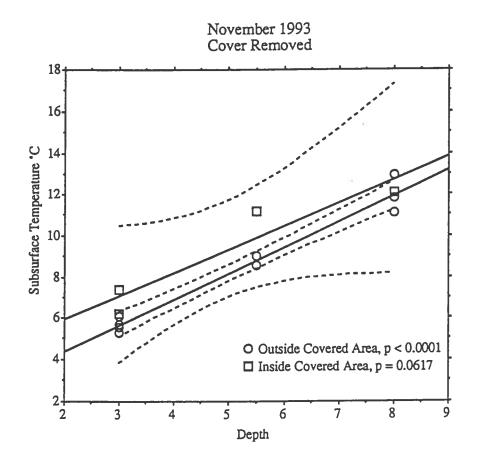
Model II estimate of between component variance = 3.783

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	5	15.28	39	.174
Inside	21	18.114	1.493	.326

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-2.834	1.41*	17.22*	4.15

^{*} Significant at 95%



Nove er 1993 Inside Covered Area ANOV. esults

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	23.927	11.964	16.616
Within groups	1	.72	.72	p = .1709
Total	3	24.647		

Model II estimate of between component variance = 8.995

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count	Mean:	Std. Dev.:	Std. Error:
S MP	2	6.8	.849	.6
M MP	1	11.2	•	•
D MP	1	12.1	•	•

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:	
S MP vs. M MP	-4.4	13.205	8.963	4.234	
S MP vs. D MP	-5.3	13.205	13.005	5.1	
M MP vs. D MP	9	15.247	.281	.75	

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	67.448	33.724	98.504
Within groups	6	2.054	.342	p = .0001
Total	8	69.502		

Model II estimate of between component variance = 11.555

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count	Mean:	Std. Dev.:	Std. Error:	
S MP	4	5.675	.33	.165	
м мр	2	8.8	.283	2	
D MP	3	11.933	.907	.524	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-3.125	1.24*	19.016*	6.167
S MP vs. D MP	-6.258	1.094*	98.059*	14.004
M MP vs. D MP	-3.133	1.307*	17.206*	5.866

^{*} Significant at 95%

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	25.205	25.205	6.055
Within groups	6	24.975	4.162	p = .0491
Total	7	50.18		

Model II estimate of between component variance = 5.261

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	4	5.675	.33	.165
Inside	4	9.225	2.866	1.433

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t
Outside vs. Inside	-3.55	3.53*	6.055*	2.461

^{*} Significant at 95%

Novel er 1993 ANOVA, All MP Inside vs M am MP Outside

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test
Between groups	1	.241	.241	.039
Within groups	4	24.727	6.182	p = .8532
Total	5	24.968		

Model II estimate of between component variance = -2.228

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	2	8.8	.283	2
Inside	4	9.225	2.866	1.433

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t
Outside vs. Inside	425	5.978	.039	.197

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	12.574	12.574	2.391
Within groups	5	26.294	5.259	p = .1827
Total	6	38.869		

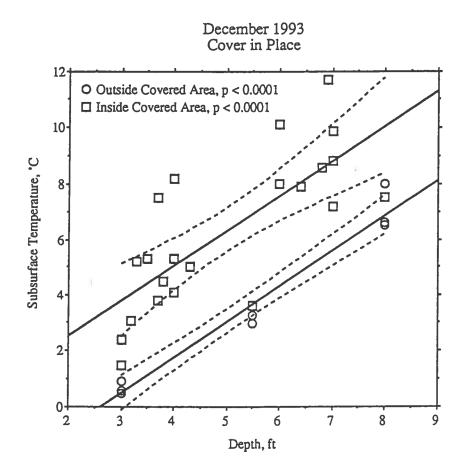
Model II estimate of between component variance = 2.134

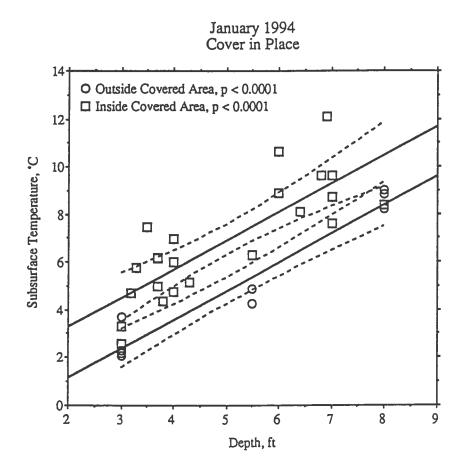
One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

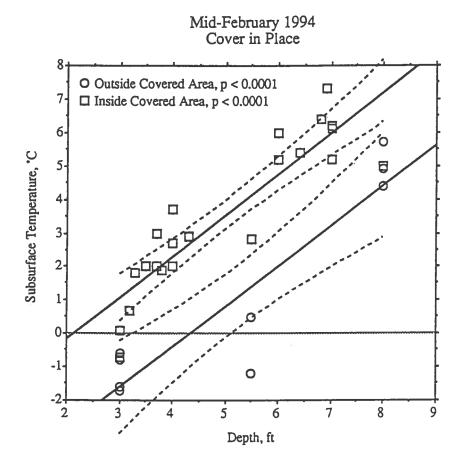
Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	3	11.933	.907	.524
Inside	4	9.225	2.866	1.433

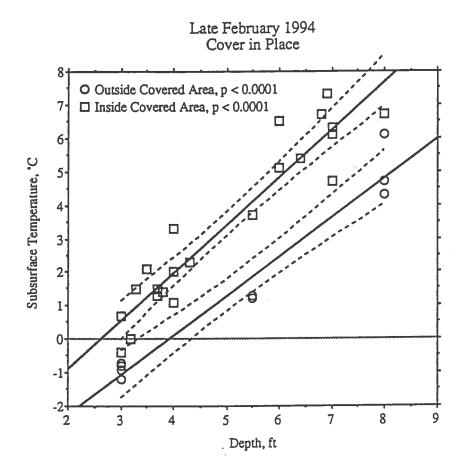
One Factor ANOVA X_1 : Location Y_1 : Subsurface Temp, ${}^{\circ}C$

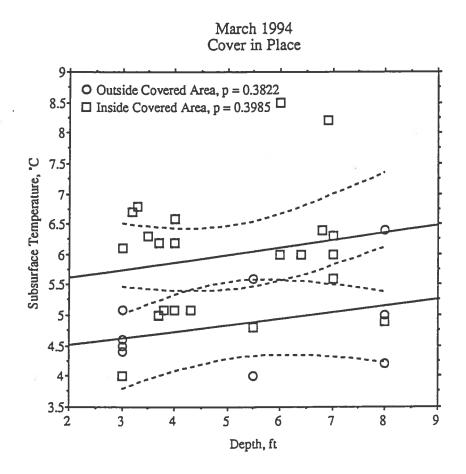
Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	2.708	4.502	2.391	1.546











larch 1994 Inside Covered Area ANC Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, 'C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	4	7.661	1.915	2.088
Within groups	17	15.589	.917	p = .1271
Total	21	23.25		

Model II estimate of between component variance = .28

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	2	5.05	1.485	1.05
м мр	1	4.8	•	•
D MP	1	4.9	•	•
STC	10	5.91	.746	.236
DTC	8	6.625	1.094	.387

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	.25	2.474	.011	213
S MP vs. D MP	.15	2.474	.004	.128
S MP vs. S TC	86	1.565	336	1.159
S MP vs. D TC	-1.575	1.597	1.082	2.08
M MP vs. D MP	1	2.857	.001	.074

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. S TC	-1.11	2.119	305	1.105
M MP vs. D TC	-1.825	2.143	.807	1.797
D MP vs. S TC	-1.01	2.119	.253	1.006
D MP vs. D TC	-1.725	2.143	.721	1.698
S TC vs. D TC	715	.958	.619	1.574

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	<i>.</i> 53	.265	393
Within groups	6	4.05	.675	p = .6915
Total	8	4.58		

Model II estimate of between component variance = -.142

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	4	4.65	311	.155
м мр	2	4.8	1.131	.8
D MP	3	5.2	1.114	.643

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t	
S MP vs. M MP	15	1.741	.022	.211	
S MP vs. D MP	55	1.535	384	.877	
M MP vs. D MP	-4	1.835	.142	.533	

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	8.138	8.138	8.48
Within groups	29	27.83	.96	p = .0068
Total	30	35.968		

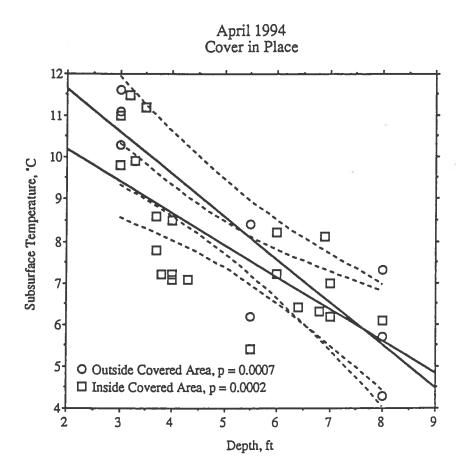
Model II estimate of between component variance = 562

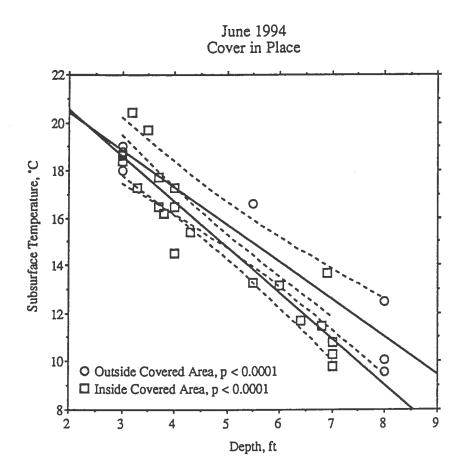
One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

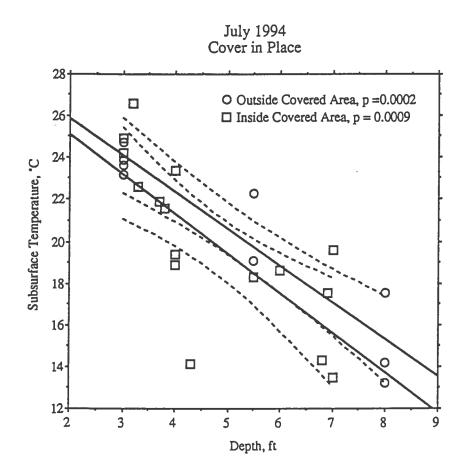
Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	9	4.867	.757	.252
Inside	22	5.995	1.052	224

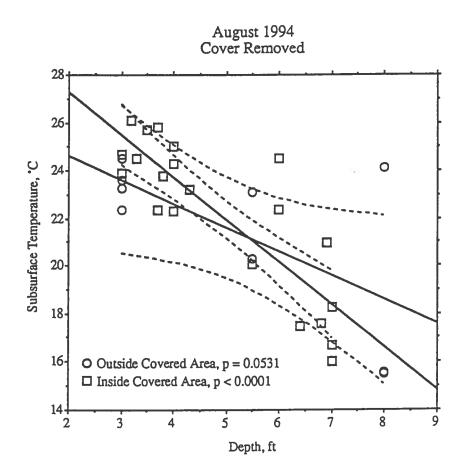
Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-1.129	.793*	8.48*	2.912

^{*} Significant at 95%









Augus. 1994 Inside Covered Area ANOVA Results (No Deep MP)

One Factor ANOVA X1: Type Y1: Subsurface Temp, *C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test
Between groups	3	127.363	42.454	8.837
Within groups	17	81.669	4.804	p = .0009
Total	20	209.032		

Model II estimate of between component variance = 8.72

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:	
S MP	2	24.3	.566	.4	
м мр	1	20.1	•	•	
STC	10	24.31	1.376	.435	
DTC	8	19.25	3.031	1.072	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	4.2	5.664	.816	1.565
S MP vs. S TC	01	3.582	1.156E-5	.006
S MP vs. D TC	5.05	3.656*	2.831	2.914
M MP vs. S TC	-4.21	4.85	1.118	1.831
M MP vs. D TC	.85	4.905	.045	366

^{*} Significant at 95%

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S TC vs. D TC	5.06	2.194*	7.896*	4.867

^{*} Significant at 95%

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	1.667E-4	1.667E-4	9.596E-5
Within groups	10	17.369	1.737	p = .9924
Total	11	17.369		

Model II estimate of between component variance = -.521

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	2	24.3	.566	.4
STC	10	24.31	1.376	.435

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. S TC	01	2.275	9.596E-5	.01

August 1994 Medium MP & Deep TC Inside Covereu Area ANOVA Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	.642	.642	.07
Within groups	7	64.3	9.186	p = .7991
Total	8	64.942		

Model II estimate of between component variance = -4.806

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
м мр	1	20.1	•	•
DTC	8	19.25	3.031	1.072

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. D TC	.85	7.601	.07	264

Lugust 1994 Outside Covered Area AN A Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	43.986	21.993	2,403
Within groups	6	54.91	9.152	p=.1712
Total	8	98.896		

Model II estimate of between component variance = 4.445

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	4	23.45	.866	.433
M MP	2	21.7	1.98	1.4
D MP	3	18.4	4.937	2.85

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	1.75	6.411	.223	.668
S MP vs. D MP	5.05	5.654	2.389	2.186
M MP vs. D MP	3.3	6.757	.714	1.195

August 194 ANOVA, Shallow MP & TC Inside s All MPs Outside

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test
Between groups	1	44.168	44.168	7.218
Within groups	19	116.265	6.119	p = .0146
Total	20	160.432		

Model II estimate of between component variance = 3.699

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	9	21.378	3.516	1.172
Inside	12	24.308	1.257	.363

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-2.931	2.283*	7.218*	2.687

^{*} Significant at 95%

August 1794 ANOVA, Medium MP & Deep TC ...side vs All Outside

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Analysis of Variance Table

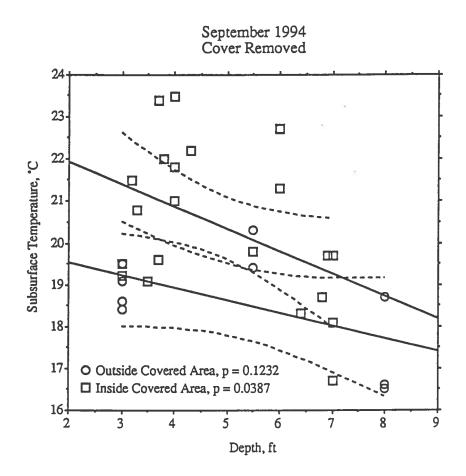
Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	18.605	18.605	1.817
Within groups	16	163.838	10.24	p = .1965
Total	17	182.443		

Model II estimate of between component variance = .929

One Factor ANOVA X1: L'ocation Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	9	21.378	3.516	1.172
Inside	9	19.344	2.849	.95

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	2.033	3.198	1.817	1.348



Ceptember 1994 Inside Covered Area AN VA Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	3	22.444	7.481	2.894
Within groups	17	43.954	2.586	p = .0656
Total	20	66.398		

Model II estimate of between component variance = 1.134

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	2	19.35	.212	.15
м мр	1	19.8	•	•
STC	10	21.49	1.436	.454
DTC	8	19.4	1.903	.673

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	45	4.155	.017	229
S MP vs. S TC	-2.14	2.628	.984	1.718
S MP vs. D TC	05	2.682	.001	.039
M MP vs. S TC	-1.69	3.558	335	1.002
M MP vs. D TC	A	3.598	.018	235

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S TC vs. D TC	2.09	1.609*	2.503	2.74

^{*} Significant at 95%

September 1994 Outside Covered Area Al VA Results

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	8.808	4.404	6.245
Within groups	6	4.232	.705	p = .0342
Total	8	13.04		

Model II estimate of between component variance = 1.28

One Factor ANOVA X_1 : Type Y_1 : Subsurface Temp, ${}^{\bullet}C$

Group:	Count	Mean:	Std. Dev.:	Std. Error:	
S MP	4	18.9	.497	.248	
м мр	2	19.85	.636	.45	
D MP	3	17.267	1.242	.717	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	95	1.78	.853	1.306
S MP vs. D MP	1.633	1.569*	3.242	2.546
M MP vs. D MP	2.583	1.876*	5.677*	3.37

^{*} Significant at 95%

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	1.203	1.203	4.204
Within groups	4	1.145	.286	p = .1097
Total	5	2.348		

Model II estimate of between component variance = 344

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	4	18.9	.497	.248
M MP	2	19.85	.636	.45

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	95	1.286	4.204	2.05

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	6.64	6.64	2.415
Within groups	25	68.746	2.75	p = .1328
Total	26	75.387		

Model II estimate of between component variance = .417

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	6	19.217	.685	.28
Inside	21	20.41	1.822	.398

One Factor ANOVA X_1 : Location Y_1 : Subsurface Temp, ${}^{\circ}C$

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-1.193	1.581	2.415	1.554

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	25.929	25.929	8.209
Within groups	22	69.485	3.158	p = .009
Total	23	95.413		

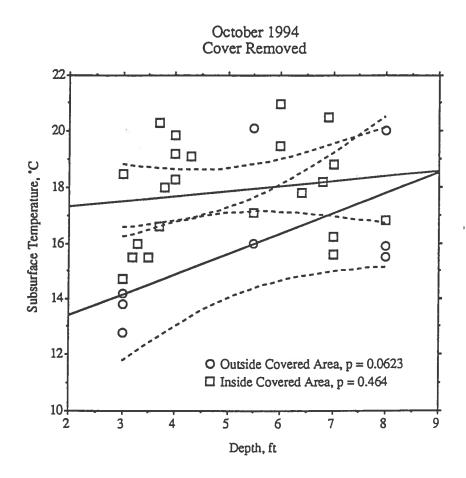
Model II estimate of between component variance = 4.337

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	3	17.267	1.242	.717
Inside	21	20.41	1.822	.398

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-3.143	2.275*	8.209*	2.865

^{*} Significant at 95%



Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	4	7.664	1.916	.52
Within groups	17	62.664	3.686	p = .7224
Total	21	70.328		

Model II estimate of between component variance = -.496

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	2	16.6	2.687	1.9
M MP	1	17.1	•	•
D MP	1	16.8	•	•
STC	10	17.84	1.821	.576
DTC	8	18.45	1.912	.676

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-5	4.961	.011	.213
S MP vs. D MP	2	4.961	.002	.085
S MP vs. S TC	-1.24	3.138	.174	.834
S MP vs. D TC	-1.85	3.202	371	1.219
M MP vs. D MP	3	5.729	.003	.11

One Factor ANOVA X₁: Type Y₁: Subsurface Temp, °C

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. S TC	74	4.248	.034	367
M MP vs. D TC	-1.35	4.296	.11	.663
D MP vs. S TC	-1.04	4.248	.067	516
D MP vs. D TC	-1.65	4.296	.164	.81
S TC vs. D TC	61	1.921	.112	.67

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test
Between groups	2	33.947	16.974	4.654
Within groups	6	21.882	3.647	p = .0602
Total	8	55.829		

Model II estimate of between component variance = 4.613

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count	Mean:	Std. Dev.:	Std. Error:	
S MP	4	13.65	.597	.299	
м мр	2	18.05	2.899	2.05	
D MP	3	17.133	2.491	1.438	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:	
S MP vs. M MP	-4.4	4.047*	3.539	2.66	
S MP vs. D MP	-3.483	3.569	2.852	2.388	
M MP vs. D MP	.917	4.266	.138	.526	

^{*} Significant at 95%

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	27.614	27.614	6.348
Within groups	29	126.157	4.35	p = .0175
Total	30	153.771		

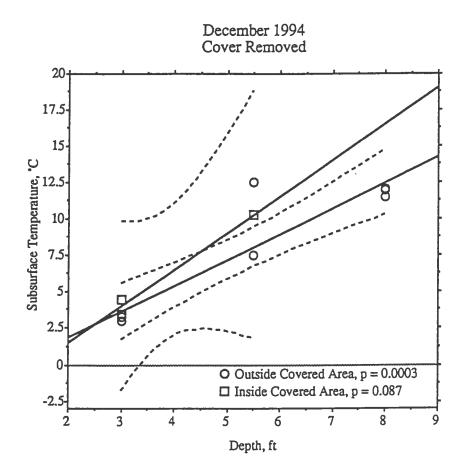
Model II estimate of between component variance = 1.821

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	9	15.789	2.642	.881
Inside	22	17.868	1.83	39

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-2.079	1.688*	6.348*	2.519

^{*} Significant at 95%



Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	143.573	71.787	33.424
Within groups	6	12.887	2.148	p = .0006
Total	8	156.46		

Model II estimate of between component variance = 24.106

One Factor ANOVA X_1 : Type Y_1 : Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:	
S MP	4	3.2	.245	.122	
M MP	2	10	3.536	2.5	
D MP	3	11.867	.321	.186	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-6.8	3.106*	14.353*	5.358
S MP vs. D MP	-8.667	2.739*	29.976*	7.743
M MP vs. D MP	-1.867	3.274	.973	1.395

^{*} Significant at 95%

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	4.181	4.181	.987
Within groups	3	12.707	4.236	p = .3937
Total	4	16.888		

Model II estimate of between component variance = -.023

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
M MP	2	10	3.536	2.5
D MP	3	11.867	.321	.186

Compa	rison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:	
M MF	vs. DMP	-1.867	5.979	.987	.994	

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	26.46	26.46	52.92
Within groups	1	5	5	p = .087
Total	2	26.96		

Model II estimate of between component variance = 19.47

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Стопр:	Count	Mean:	Std. Dev.:	Std. Error:
S MP	2	4	.707	5
м мр	1	10.3	•	•

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-6.3	11.004	52.92	7.275

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	14.417	14.417	2.656
Within groups	5	27.14	5.428	p = .1641
Total	6	41.557		

Model II estimate of between component variance = 2.622

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count	Mean:	Std. Dev.:	Std. Error:
Outside	4	3.2	.245	.122
Inside	3	6.1	3.672	2.12

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-2.9	4.574	2.656	1.63

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:	
Between groups	1	47.251	47.251	6.466	
Within groups	6	43.848	7.308	p = .0439	
Total	7	91.099			

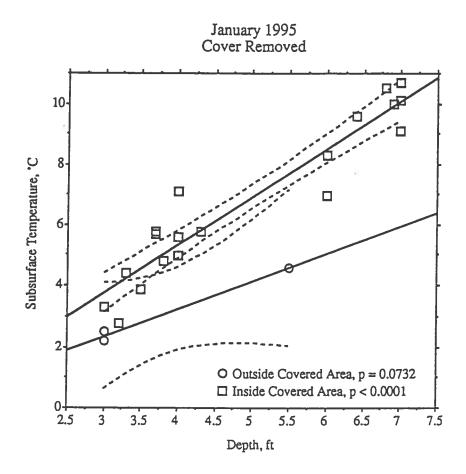
Model II estimate of between component variance = 10.651

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	5	11.12	2.055	.919
Inside	3	6.1	3.672	2.12

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	5.02	4.831*	6.466*	2.543

^{*} Significant at 95%



Juary 1995 Inside Covered Area ANO Result

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	2	96.088	48.044	32.356
Within groups	16	23.758	1.485	p = .0001
Total	18	119.845		

Model II estimate of between component variance = 9.027

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:	
S MP	1	3.3	•	•	
STC	10	5.09	1.198	379	
DTC	8	9.412	1.245	.44	

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. S TC	-1.79	2.709	.981	1.401
S MP vs. D TC	-6.112	2.74*	11.183 *	4.729
S TC vs. D TC	4.323	1.225*	27.962*	7.478

^{*} Significant at 95%

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	2.913	2.913	2.031
Within groups	9	12.909	1.434	p = .1879
Total	10	15.822		

Model II estimate of between component variance = .813

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	1	3.3	•	•
STC	10	5.09	1.198	.379

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. S TC	-1.79	2.841	2.031	1.425

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	3.375	3.375	75
Within groups	1	.045	.045	p = .0732
Total	2	3.42		

Model II estimate of between component variance = 2.498

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count	Mean:	Std. Dev.:	Std. Error:
S MP	2	2.35	.212	.15
M MP	1	4.6		•

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-2.25	3.301	75	8.66

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	7.87	7.87	4.908
Within groups	12	19.242	1.603	p = .0468
Total	13	27.112		

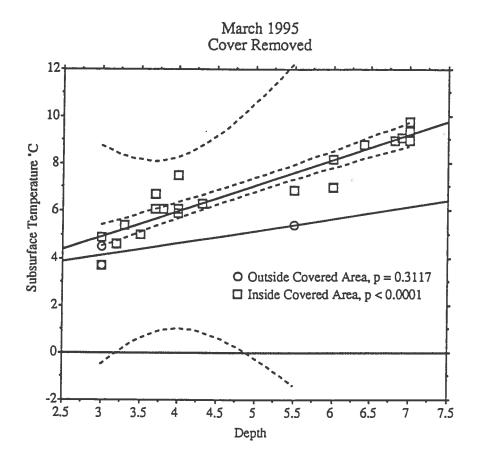
Model II estimate of between component variance = 1.329

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	3	3.1	1.308	.755
Inside	11	4.927	1.258	.379

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-1.827	1.797*	4.908*	2.215

^{*} Significant at 95%



Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	3	50.653	16.884	23.86
Within groups	17	12.03	.708	p = .0001
Total	20	62.683		

Model II estimate of between component variance = 3.747

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	2	4.3	.849	۵.
м мр	1	6.9	•	•
STC	10	5.97	.829	.262
DTC	8	8.788	.856	.303

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-2.6	2.174*	2.123	2.524
S MP vs. S TC	-1.67	1.375*	2.19	2.563
S MP vs. D TC	-4.488	1.403*	15.177*	6.748
M MP vs. S TC	.93	1.861	.37	1.054
M MP vs. D TC	-1.888	1.882*	1.492	2.115

^{*} Significant at 95%

M 1995 Inside Covered Area ANOVA ults One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S TC vs. D TC	-2.818	.842*	16.619*	7.061

^{*} Significant at 95%

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	.786	.786	1.145
Within groups	9	6.181	.687	p = .3125
Total	10	6.967		

Model II estimate of between component variance = .055

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
M MP	1	6.9	•	•
STC	10	5.97	.829	.262

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
M MP vs. S TC	.93	1.966	1.145	1.07

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	1.127	1.127	3.521
Within groups	1	.32	.32	p = .3117
Total	2	1.447		

Model II estimate of between component variance = .605

One Factor ANOVA X1: Type Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
S MP	2	4.1	.566	.4
M MP	1	5.4	•	•

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
S MP vs. M MP	-1.3	8.803	3.521	1.876

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	.065	.065	.09
Within groups	3	2.167	.722	p = .7832
Total	4	2.232		

Model II estimate of between component variance = -.274

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Outside	3	4.533	.85	.491
Inside	2	43	.849	.6

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	233	2.469	.09	301

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	5.455	5.455	7.779
Within groups	12	8.414	.701	p = .0164
Total	13	13.869		

Model II estimate of between component variance = 1.008

One Factor ANOVA X1: Location Y1: Subsurface Temp, °C

Group:	Count:	Mean:	Sid. Dev.:	Std. Error:
Outside	3	4.533	.85	.491
Inside	11	6.055	.835	.252

Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Outside vs. Inside	-1.521	1.188*	7.779*	2.789

^{*} Significant at 95%

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APPENDIX 29

MOISTURE CONTENT RESULTS FROM MONITORING POINTS IN THE VICINITY OF THE PLASTIC-COVERED AREA

isture Content in Plastic-Covered Reg

Soil Sample	Depth, ft bgs	Location	Initial MC, %	Final MC. %
MP-1, 1-1	7.5 to 8.0	Outside		4.84
MP-1, 2-2	5.0 ω 5.5	Outside	2.87	
MP-1, 2-3	4.5 to 5.0	Outside	5.99	3.63
MP-1, 4-1	1.5 to 2.0	Outside	17.21	4.08
MP-1, 2-1	5.5 to 6.0	Outside	16.35	
MP-2, 1-1	7.5 to 8.0	Outside	1.46	-
MP-2, 1-2	7.0 to 7.5	Outside	6.13	
MP-2, 1-3	6.5 to 7.0	Outside	5.53	
MP-2, 3-2	3.0 to 3.5	Outside	20.27	
MP-2, 3-3	2.5 to 3.0	Outside	2.79	
MP-5, 2-1	5.5 to 6.0	Outside	5.38	
MP-5, 2-2	5.0 to 5.5	Outside	2.62	
MP-5, 2-3	4.5 ω 5.0	Outside	3.68	0.66
MP-5, 2-4	4.0 ω 4.5	Outside	2.43	3.53
MP-5, 4-1	1.5 to 2.0	Outside	4.22	4.67
MP-6, 1-1	7.5 to 8.0	Outside	2.27	
MP-6, 3-1	3.5 to 4.0	Outside	7.23	
	14	Mean	6.65	3.57
MP-0, 1-2	7.0 to 7.5	Inside	1.43	
MP-0, 1-3	6.5 to 7.0	Inside	2.74	19.47
MP-0, 1-4	6.0 to 6.5	Inside		14.63
MP-0, 3-2	3.0 to 3.5	Inside	23.00	5.99
MP-0, 3-3	2.5 to 3.0	Inside	3.67	10.03
MP-3, 1-4	6.0 to 6.5	Inside		15.19
MP-3, 2-2	5.0 to 5.5	Inside	33.63	5.52
MP-3, 2-3	4.5 ω 5.0	Inside	41.14	8.49
MP-3, 4-1	1.5 to 2.0	Inside	20.87	56.00
MP-3, 4-2	1.0 to 1.5	Inside	4.48	3.99
MP-4, 1-1	7.5 to 8.0	Inside	1.64	
MP-4, 1-2	7.0 to 7.5	Inside	4.24	
MP-4, 3-4	2.0 to 2.5	Inside	1.27	6.11
MP-4, 3-1	3.5 to 4.0	Inside	2.42	
MP-4, 3-2	3.0 to 3.5	Inside	13.98	
MP-4, 3-3	2.5 to 3.0	Inside	2.15	
		Mean	11.19	14.54

One Factor ANOVA X1: Location Y1: Moisture Content

Analysis of Variance Table

Source:	DF:	Sum Squares:	Mean Square:	F-test:
Between groups	1	526.977	526.977	4.563
Within groups	44	5081.43	115.487	p = .0383
Total	45	5608.407		

Model II estimate of between component variance = 17.925

One Factor ANOVA X1: Location Y1: Moisture Content

Group:	Count:	Mean:	Std. Dev.:	Std. Error:
Inside	24	12.587	14.002	2.858
Outside	22	5.811	5.22	1.113

One Factor ANOVA X1: Location Y1: Moisture Content

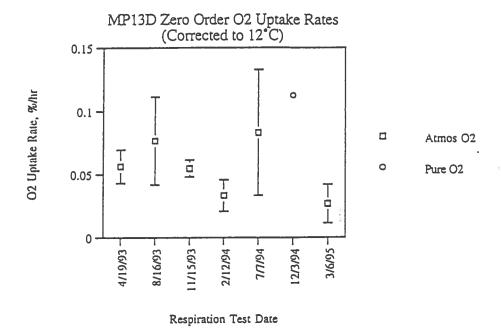
Comparison:	Mean Diff.:	Fisher PLSD:	Scheffe F-test:	Dunnett t:
Inside vs. Outside	6.776	6.393*	4.563*	2.136

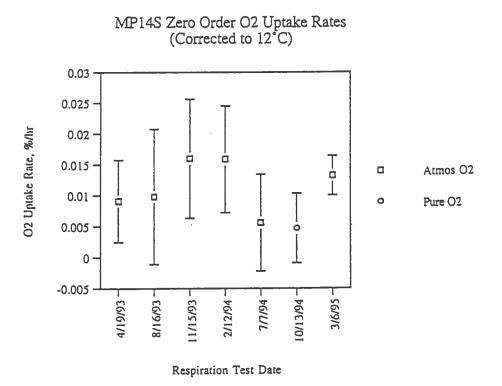
^{*} Significant at 95%

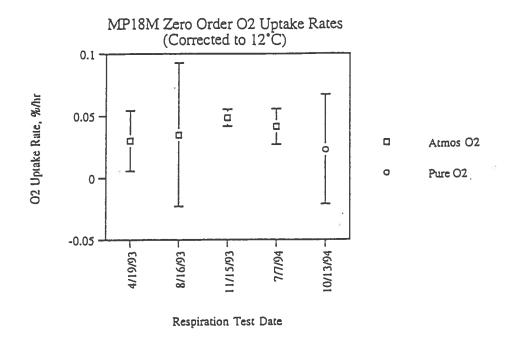
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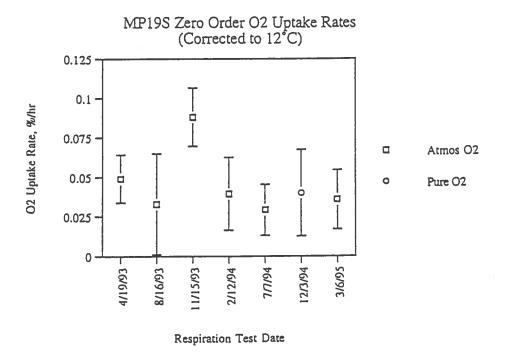
APPENDIX 30

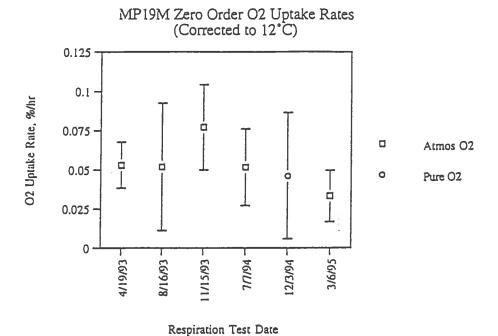
TEMPERATURE-CORRECTED RESPIRATION RATES AND PLOTS FOR MONITORING POINTS EXPERIENCING PURE O_2 AND AMBIENT AIR INJECTION

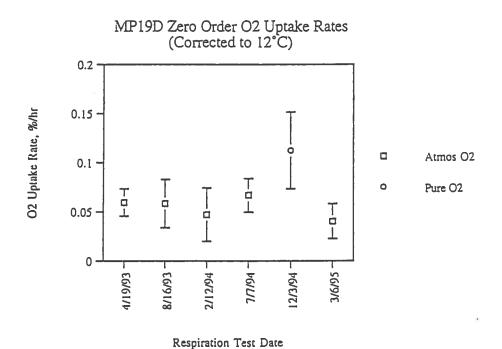












APPENDIX 31

OXYGEN CONSUMPTION DATA FROM LABORATORY STUDIES EXAMINING THE EFFECT OF PURE $\mathrm{O_2}$ ON RESPIRATION RATES

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	Τ	T,	d. %									1	Γ	-		1	Ī	<u> </u>	Ι	Τ	Ī	Ι	<u> </u>	Ī	Ī	Τ	 				<u> </u>	1		Ι		_		1	_	7	-	_		-					_	_
1 000 000 TPH	20C/oura O2	Cumulative	O2 Consumed, %	0.0	-1.0	-1.8	-0.8	2.4	12.1	0.0	-0.7	0.8	0.6	2.4	9.6	0	40-	80	4	7.7	0	2 0-	0.8	70	8 9	0 7	18.3	22.1	00	200		2.0	2.7	11.0	11.0		25.0	0.0	-1.0	0.7	2.0	1.0	9.4	13.0	25.0	22.9	0.0	-2.4	-1.4	-0.4
1.00	500	Elapsed	Tine, hr	0	23	46	95	190	261	0	23	7.0	95	148	221	0	23	5 6	186	240	-	23	9.5	166	240	286	308	381		23	2 4	125	190	281	266	334	405	0	23	70	148	221	288	285	358	430	0	23	7.0	148
	pura O2	Cumulative	Ö		2.5	-0.2	12.9	6.1	0.0	3.6	1.1	3.7	4.1	0.0	1.3	1.8	4.1	4.2	0.0	-0.5	-2.6	-0.1	17.5	.2.2	1.3	₽ Q-	0.0	2.0	-0.1	4.7	2.8	8 9	9.0	2.0	0.0	11.7	0.7	2.7	2.4	6.1	9.8	2.8	0.0	2.3	-0.9	3.0	-1.2	6.0	2.7	3.4
100 ppm TPH		Elapsed	Time, hr	0	28	51	7.5	128	0	28	51	7.5	126	0	28	5.1	7.5	126	0	28	5.1	7.5	126	172	240	312	0	28	5.1	7.5	128	172	240	312	0	28	51	7.5	126	172	240	312	0	28	51	7.5	128	172	240	312
100 pg	almos O2	Cumulative	O2 Consumed, %	0.0	0.3		0.8	1.1	1.7	2.3	3.0	3.9	2.7	4.5	5.5	5.8	5.7	0.0	6.5	0.0	0.4		0.8	2.0	2.1	2.8	2.8	2.7	3.3	3.6	5.5	5.2	5.3	5.8	0.0	0.1	0.4	0.6	2.4	1.4	2.2	2.8	3.2	4.1	3.9	5.4	5.1		6.0	
	alr	Etapsed	Time, 1v C	٥	28	21	-	80	123	147	187	240	287	335	380	409	428	477	524	0	26	51	17	100	123	147	187	240	287	335	380	428	477	524	0	26	21	7.1	100	123	147	187	240	287	335	380	428	477	524	
	pure O2	Cumulaliva	O2 Consumed, %	0.0	1.0	9.1	-0.8	2.4	12.1	0.0	-0.7	0.8	9.0	2.4	3.9	0.0	-0.4	0.8	4.4	7.4	0.0	-0.7	9.0	0.4	6.9	9.7	16.3	22.1	0.0	0.1	-0.3	2.8	2.7	11.0	11.0		25.0	0.0	0.1.0	0.7	2.0	0.1	9.4	13.0	25.0	22.9	0.0	-2.4	1.4	-0.4
1,000 ррип ТРН			2	0	23	48	CA	190	787	0	23	70	95	148	221	0	23	92	186	240	0	23	95	166	240	268	309	381	0	23	46	125	190	261	286	334	405		22	2	148	122	266	285	328	430	0	23	20	148
1,000 p	almos O2	Cumulative	O2 Consumed, %	0.0	0.0		10.2	0.0	1.4	11.0	12.0	15.9	0.0	2.8	14.4	0.0	0.0	9.8	16.5	18.5	18.4	22.5	25.3	28.8	29.5	0.0	1.3	10.8	12.3	15.9	15.9	18.8	22.1	24.8	27.4	0.0	3.4	9.6	14.0	10.4	19.7	23.3	20.0	26.8	0.0	0.8	8.8	15.8	15.6	18.8
	8	_	2	2	147	200	2 3	000	7,50	//2	062	324	100	218	301	00	147	266	315	324	348	411	491	607	650	100	172	277	290	324	324	388	440	531	850	001	218	200	324	240		200	/00	000	201	147	266	315	324	388
	pure 02	_1.	Uz Consumed, %	0.0	0	n c	000	12.0	2. 9	10.4	60.9	33.9	0.0	-1.5	3.2	4.3	2.8	8.8	0.0	10.0	10.2	0.0	7.8	1.8	0.5	7.7	27.9	8.0	19.7	21.5	0.0	-0.7	0.1	2.4	11.4	2.5	9	0 2	0.1	0.1	0.00	2 2	14.0	0.0	14./	18.0	17.8	0.0	9.0	6.7
10,000 ppm TPH			200	2 2	147.0	9 701	2000	278 1	9	334 0	2000	2.50	0.0	2.6	169.0	216.3	282.8	301.8	322.1	334.8	339.4	0.0	96.3	147.8	197.6	239.6	276.1	310.6	334.8	339.4	0.0	119.8	169.0	218.3	282.8	2000	322.1	334.0	240 -	2,00.0	2.0.0	263.5	202.2	2/0.0	201.00	386.8	392.9	0.0	96.3	147.8
	almos O2	Cumulative	Oc Consumed, 76	0	9.5	7.9	14.3	2	-	2.6	2	0.0	2.0	0.0	1.6	5.0	16.5	16.7	0.0	1.4	3.2	10.7	17.5	17.5	17.5	17.5	17.5	17.5	0.0	1.4	4.3	10.3	10.3	15.1	9.9	2.0	0.12	0.0	200		8 8	2.5		14.4	50.0	26.0	27.7	28.4	0.0	1.4
	S Proposition	The by	_	148.7	238.8	315.9	343.0	100 0	195.4	266.3	224 0	247.0	2,000	0.00	214.3	507.3	340.2	343.9	100.0	195.4	286.3	334.9	343.9	355.3	380.0	381.6	387.8	393.2	100.0	214.3	287.3	340.2	343.9	367.3	380.0	201.0	2000	1001	146.7	9 8 8	215.0	2420	0.070	2000	0.000	201.00	307.2	393.2	0000	195.4

Γ	T	9/	8d, %		1	Ī						1									Ī					T		İ			-		Ī				1		Ī	Ī	_				
1 000 non TPH	20C/ours O2	Cumulative	O2 Consuned, %	2.5	9.4	13.2	20.1	23.1	23.1	22.2	20.02	28.8	20.00	200	-1.2	-0.2	1.9	6.9	10.0	13.8	20.4	23.5	24.9	0.00	28.6	0.0	-0.7	6.0	-0.2	2.4	6.8	10.	0.62	24.2	22.5	23.8	28.1	28.1	0.0	7	9	0.1	9.3	9.5	17.0
1 00	200	Elapsed	\rightarrow	221	268	285	358	430	434	404	250	000	50.5		23	9.2	186	240	268	309	381	434	478	000	821	0	23	46	125	190	281	224	405	434	454	528	573	621	9 8	48	125	190	281	266	224
	Dura O2	Cumulative	O2 Consumed, %	4.1	4.6	1.3	0.0	4.3	2.0	2 0	200	0	0.0	-0.7	2.8	2.1	0.0	0.0	0.0	5.7	1.4	-0.3	22.5	2 1	4.1	3.4	0.0	-0.2	-0.3	3.8	2.1	10.7	2.8	4.1	4.3	3.8	0.0	9.0	200	0 6	-2.4	-0.8	-0.7	-0.4	20
100 ppm TPH	ŀ		₽	381	442		9 6	07	3.6	128	179	340	312	381	442	525	0	28	21	7.5	126	2/1	240	181	442	525	0	28	5.1	75	128	240	312	381	442	525	0	28	0 6	128	172	240	312	381	440
100 pp	almos O2	Cumulative	O2 Consumed, %																																										
	8		Time, hr																																										
	pure O2	Curnulative	Oz Consumed, %	6.3	13.9	20.1	23.1	23.1	25.2	20.0	28.6	29.8	30.3	0.0	-1.2	-0.2	1.9	9.8	10.0	13.6	20.4	24.0	28.8	28.8	28.5	0.0	-0.7	0.9	-0.2	2.4	9.8	20.4	23.0	24.2	22.5	23.6	26.1	70.0		-0.1	-1.8	1.0	9.3	9.5	17.0
1,000 ppm TPH	- 7	Elapsed	Ime, Iv	28.8	285	358	430	434	454	528	550	573	621	0	23	95	188	240	200	Social	201	47.8	550	598	621	0	23	46	125	190	266	334	405	434	454	528	2/3	170	23	48	125	190	261	288	756
- 1	almos O2	Cumulative	Oz Consumaa, 76	24.6	0.0	1.4	12.7	16.0	18.0	17.4	21.2	24.0	26.2	0.0	3.3	14.2	14.2	17.1	7007	63.7																									
		Elapsed Trans hy	440	531	100	172	290	324	324	348	411	491	807	100	218	301	324	388	100	200																									
	pure O2	Cumulative	6.0	9.1	13.1	18.0	23.3	23.5	23.5	20.7	. 21.1	24.1	24.8	30.4	28.7	31.2	0.0	1.2			12.3	15.6	16.7	25.8	29.8	29.8	29.4	32.0	33.7	30.4	41.4	44.8	0.0	4.1	8.8	2.3	10.		15.0	0.0	0.7	4.5	12.5	10.7	15.8
- 1		Time by	_	239.8	276.1	301.8	334.8	339.4	340.1	346.0	358.1	363.3	370.0	381.2	386.8	392.9		2000	216.2	280 B	301.8	310.8	322.1	334.8	339.4	340.1	348.0	358.1	363.3	381.2	386.8	392.9	0.0	96.3	147.8	930.6	207 -	301.8	310.6	0.0	169.0	216.3	262.8	287.7	301.8
10,000 ppm 1PH	almos Oz	O2 Consumed %	3.0	13.1	18.0	24.7	29.1	29.8	31.0	31.9	35.1	37.4	38.2	38.8	39.9	41.8	3.55	25.0	2	8	15.8	17.0	17.0	17.0	17.0	17.0	18.7	19.1	10.1	21.0	24.2	25.1	26.8	0.0	9.1	2.5	8 11	13.3	16.8	25.9	26.4	27.0	30.8	32.7	24.0
	ā 7	Time, h		334.9	343.9	367.3	380.0	381.6	367.2	393.2	403.6	411.7	420.0	427.2	436.9	450.7	474.9	200	2143	287.3	340.2	343.9	355.3	380.0	307.8	393.2	403.8	411.7	420.0	438 9	450.7	462.8	474.3	100.0	195.4	215 9	334.9	343.9	367.3	380.0	387.6	393.2	403.6	411.7	420.0

	20C/2002 DO	ZUCZPUTB UZ	O2 Consumed %	23.1	27.8	26.2	30.4	31.4	0.0	-0.3	1.6	1.5	4.9	10.7	24.4	24.1	0.0	.1.0	0.3	3.9	i i	3.1.5	28.0	94.8	26.8	27.3	31.2	31.9	33.2	32.5	0.0	2	300	10.3	14.9	19.7	24.2	33.4	29.2	31.1	7 67	40.1		41.9
18	2 0	Flancod	1.	434	454	478	598	621	0	23	70	148	221	286	358	430	0	23	95	186	240	200	381	434	478	528	550	573	598	621	150	88	220	245	257	275	298	318	340	200	- 1	484	508	
	Dura O2	Cumulativa	O2 Consumed, %	0.0	0.0	-1.2	1.2	2.7	1.7	2.5	0.4	5.8	9.0	Indicate culling																														
HQT u	-	Elansad	Thme, hr	0	28	51	75	126	172	240	312	381	442	l 69																														
HdT mon 100	atmos O2	Cumulative	O2 Consumed, %		9																																							
	8	Elapsed																		Ī								Ī																
	pure O2	Cunulative	O2 Consumed, %	23.1	27.8	28.2	30.4	31.4	71.5	6.1.0	500	3.0	9.5	12.0	23.2	22.8	0.0	0.1.0	200	2	11.2	18.2	28.0	24.8	28.8	27.3	31.2	31.9	33.2	36.3														
m TPH			_	434	454	9/9	286	700	3 6	202	977	22.0	288	285	358	430	0	523	186	240	286	309	381	434	478	528	550	5/3	080	1									İ					
1,000 ppm TPH	almos O2	Cumulative	O2 Consumed, %																																									
	8	Elapsed	Time, fir																																									
	pure 02	Cumulative	O2 Consumed, %	10.5	13.7	8 8	011	15.9	13.3	18.1	17.4	22.9	22.9	27.8	28.7	31.2	39.2	38.7	41.2	39.2	0.0	6.3	4.7	9.3	9.9	10.7	11.8	17.9	20.8	20.8	16.1	20.0	25.3	28.4	26.3	29.5	29.2	29.2	29.5	31.5	31.8	37.4	35.2	
1 1	г	_	Time, hr (2000	340 1	348.0	358.1	363.3	370.0	381.2	388.8	392.9	393.8	405.3	410.8	417.2	463.0	454.2	465.1	477.5	0.0	98.3	147.8	197.8	239.6	297.1	9.10.6	334 B	339.4	340.1	346.0	358.1	363.3	370.0	388 8	392.9	393.8	405.3	410.8	417.2	429.0	442.5	454.2	
10,000 ppm TPH	atmos O2		OZ Consumed, %	28.4	40.0	41.2	43.4	45.0	48.0			48.5		İ	Ť	Ť	2000	54.0			58.8	58.2	0.0	2.8	17.7	T	20.5	T		35.4		1	Ť	İ	44.8	Ì			50.4	51.0	52.8	53.0	54.0	
	a l		438 9	450 7	482.8	474.3	488.3	498.9	509.2	522.7	533.8	548.3	558.4	571.4	582.4	2000.1	818.0	629.9	842.0	654.5	685.9	694.9	100.0	268.3	343.9	2000.0	382.2	387.2	393.2	403.8	411.7	420.0	427.2	436.9	482.8	474.3	488.3	498.9	509.2	522.7	533.0	548.3	558.4	1 162

200		20		-	OOO pom TPH			_	100 ppm TPH		20	1,000 pp/n TPH
Ì	Possed	pure Oz		ĔĹ		亂		atmos O2	- 1	pura O2	20	20C/pure 02
O2 Consumed, % Th	_	O2 Consumed %	Time tv	O2 Coosumed %	Time by	Cumulative	Elapsed Trans hy	Cumulative		Cumulative		
						Or Consumed	I RESE, DA	Oz Cansumaa, %	Irme, N	Oz Consumed, %	-	O2 Consumed, %
~	218.3	8.8									220	2.6
Ñ	287.7	10.9									246	0.5
က	310.8	11.4									267	9.0
e	322.1	10.8									286	18.1
<u>u</u>	334.8	10.8									275	19.4
<u>د</u>	339.4	13.4									298	23.4
6	340.1	13.4									316	27.1
6	348.0	11.5									340	29.3
6	358.1	11.7									37.1	32.1
ñ	383.3	15.5									390	33.8
9	370.0	15.8										34.8
9	381.2	17.1									484	40.0
<u> </u>	388.8	17.4									508	40.2
ñ	392.9	21.1									531	41.9
9	393.0	21.1									150	-0.8
1	405.3	22.4									173	-0.2
4	410.8	24.0									198	1.8
7	417.2	27.8									220	2.6
4	429.0	28.7									245	60
4	442.5	35.2									257	15.9
4	454.2	38.0									288	18.7
7	485.1	41.9									275	18.1
7	477.5	42.4									298	18.4
4	477.9	42.4						:			316	25.0
4	489.3	44.1									340	26.8
2	501.0	49.2									37.1	29.3
2	512.7	50.8									390	31.5
2	524.8	53.1									411	31.6
2	538.6	55.3									484	38.4
2	548.7	55.7									508	38.0
2	577.8	81.2									531	39.6
1	0.0	0.0										
7	98.3	9.3										
<u>-1</u> ,	147.8	4.3										
<u>-1</u> °	197.0	6.7										
7	239.0	14.2										
1	297.1	10.0			1							
7 9	301.0	10.7										
75	334.6	16.5										
<u> </u>	340 1	21.1										
15	248	14.7										
15	358 1	17.4										
15	282 2	21.0										
15	370.0	23.9										

		Elapsed	1,000 p atmos O2 Cumulativa	1,000 ppm TPH tive Elapsed	pure O2 Cumulative	e Elapsed	100 pp almos O2 Cumulativa	100 ppm TPH	pure O2 Cumulativa	1,00 20 Flancad	20C/pure O2
, ,	O2 Consumed, %	Time, hr	O2 Consumed, %	1.	O2 Consumed, %	Time, hr	O2 Consumed, %	7 1	Ö	c Time, hr	Cumulative O2 Consumed, %
392.9	32.5										
405.3	32.5										
410.8	36.9										
429.0	36.7										
442.5	42.7										
454.2	41.8										
465.1	45.6										
477.9	43.2										
489.3	43.7										
501.0	48.0										
512.7	47.7										
536.8	2003										
548.7	50.0										
677.8	53.2										
0.0	0.0										
189.0	10.3										
218.3	4.5						8				
287.7	8.5										
310.8	5.4	İ									
322.1	0.0										
230.4	0.00							ŀ			
340.1	12.2					-					
346.0	11.0										
358.1	10.8										
383.3	18.4										
370.0	15.4										
381.2	17.8										
302 0	20.0										
393.6	20.0										
405.3	21.5										
410.8	23.3										
417.2	24.7										
429.0	28.7										
442.5	34.3										
454.2	38.7										
465.1	39.2										
477.5	40.0										
477.9	40.0										
409.3	42.2										
5010	45.7	_				_					

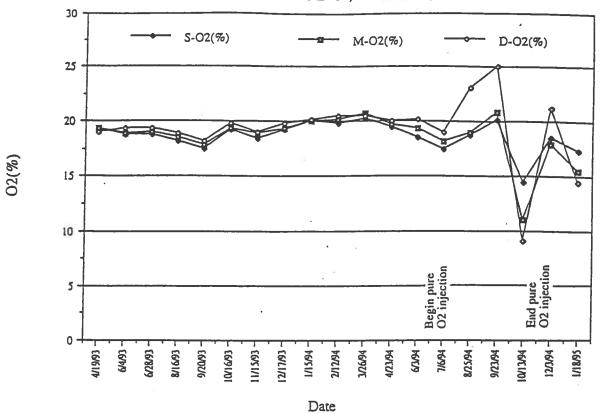
	Ton			20.8		mulalive		onsumed %										
	1 000 000	וואלן ססייו	-1000	SUCYPUIS US		Elapsed Cumulalive		IMe. 17 102 C		_		_		_		_		_
			CO outro	alla Oc	C. Marthalland	CUMURING	The Partie of the	Section of the sectio						_				
	100 pom TPH				Flanced	Pierra	Time he	JAHO, IN JA										
	00 001	П	Almos O2		Elansari Cumulativa	Camping	O Consumed of	of collabilition, A										
					Elansard		Time hr											
			bride OS		Cumulalive		32 Consumed %											
1102	יישם מסח'				LIBOS60	1			_									
1000	d mon't	CO some	IIIOS OC		Example Commany Readsed Commany	10000	oz consumed, %											
		-	8	Flance	Citation	Time he	MIND, IN									İ	_	
		Dire Oo		Completing	DAIIDINA			46.0	40.0		48.4		49.5		50.5		55.1	
0.000 pow TP14				Flancad	3	Tinte he	2	6107	216.7		924.6		536.6	1	246.7		9//0	
10000	1	almos O2	Ł	Cumulativa		102 Consumed % Time by 100 Cope												
		-		Flaosad		Ima hr												

APPENDIX 32

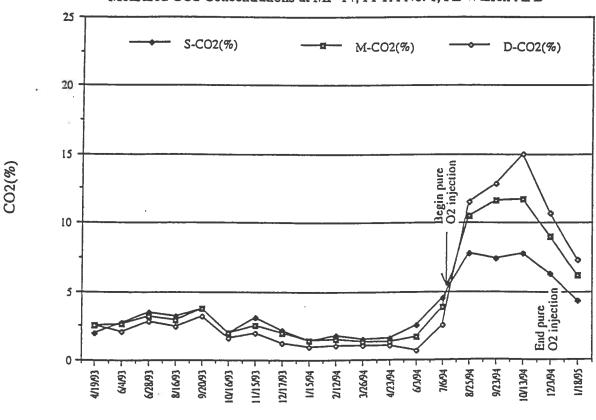
PLOTS OF $\mathrm{O_2}$ AND $\mathrm{CO_2}$ CONCENTRATIONS AT MONITORING POINTS AFFECTED BY PURE $\mathrm{O_2}$ INJECTION AT I13

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Measured O2 Concentrations at MP-14, FPTA ... 1, FE Warren AFB

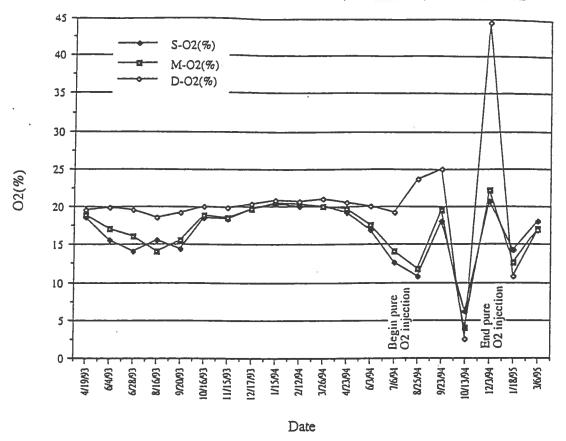


Measured CO2 Concentrations at MP-14, FPTA No. 1, FE Warren AFB

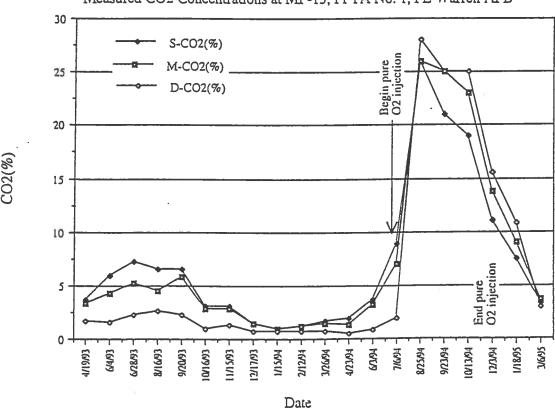


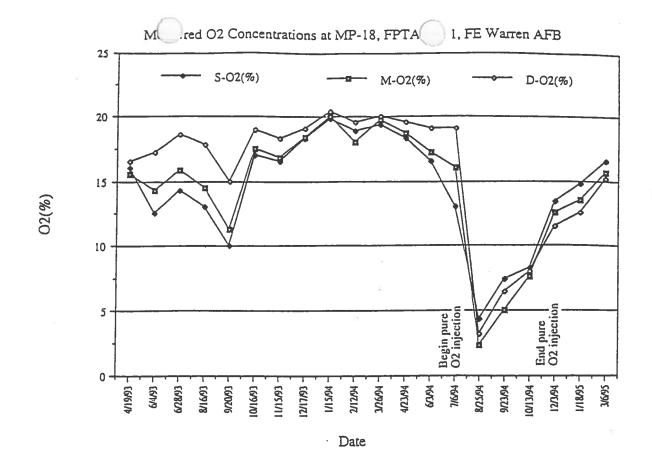
te

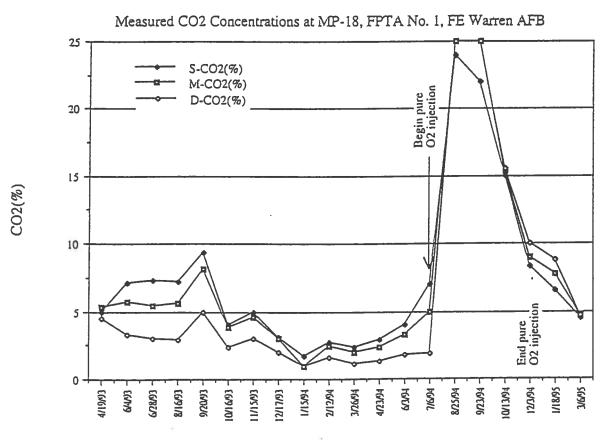
Neusured O2 Concentrations at MP-13, FPTA. o. 1, FE Warren AFB



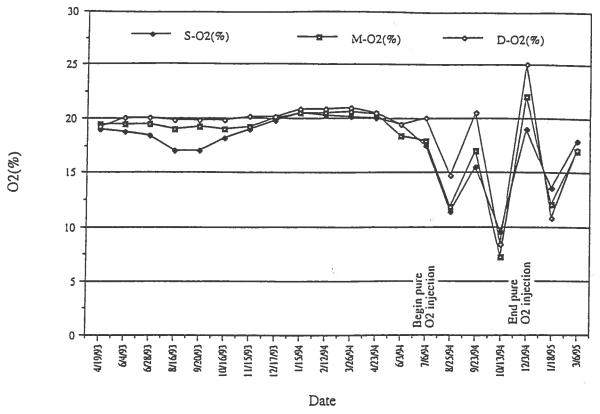
Measured CO2 Concentrations at MP-13, FPTA No. 1, FE Warren AFB



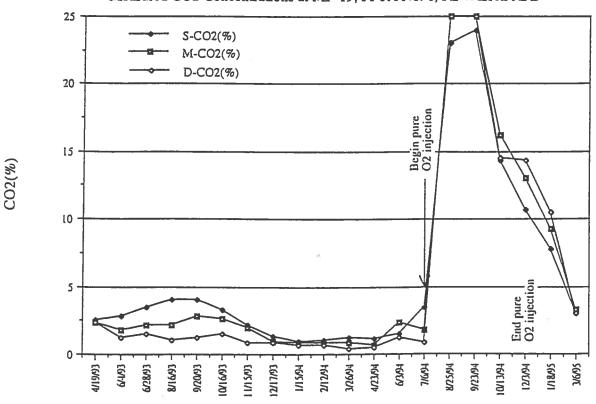








Measured CO2 Concentrations at MP-19, FPTA No. 1, FE Warren AFB

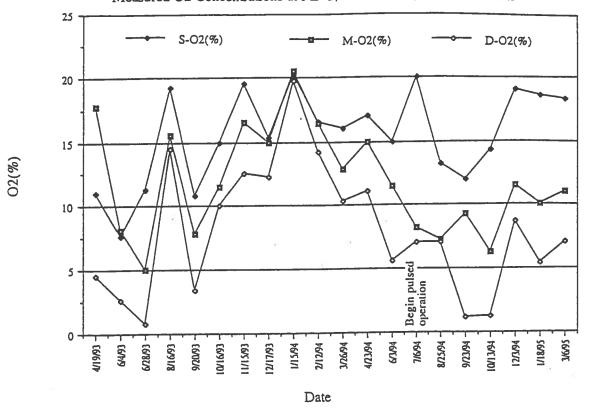


APPENDIX 33

PLOTS OF $\mathrm{O_2}$ AND $\mathrm{CO_2}$ CONCENTRATIONS AT MONITORING POINTS AFFECTED BY PULSED AIR INJECTION

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Measured O2 Concentrations at MP-5, FPTA No. 1, FE Warren AFB



Measured CO2 Concentrations at MP-5, FPTA No. 1, FE Warren AFB

